

Academic Research and Development Expenditures:

Fiscal Year 2000

Detailed Statistical Tables

Division of Science Resources Statistics
Directorate for Social, Behavioral, and Economic Sciences

National Science Foundation



January 2002

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M. Marge Machen, Project Officer

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GENERAL NOTES

The data presented in this report were compiled from the National Science Foundation's (NSF's) fiscal year (FY) 2000 Survey of Research and Development Expenditures at Universities and Colleges (academic R&D expenditures survey). They refer to science and engineering expenditures for separately budgeted research and development (R&D). Terms used in institutional accounting procedures are incorporated throughout the tables.

The term "separately budgeted R&D expenditures" includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. "Expenditures" are funds actually spent by an institution during its fiscal year. "Separately budgeted R&D equipment purchased from current funds" includes all research equipment purchased under sponsored research project awards.

"Federally funded research and development centers" (FFRDCs) are R&D-performing organizations that range from the traditional contractor-owned/contractor-operated or Government-owned/contractor-operated organizational structures to various degrees of contractor/Government control and ownership. FFRDCs are formed to achieve particular Federal R&D objectives that cannot be met as effectively by existing organizations.

The terms "imputation" and "imputed data" refer to the computerized process by which NSF develops estimates of data when institutions do not furnish the infor-

mation upon request. Using this process, estimates are developed that are based primarily on key data items reported in prior years' surveys. When these key data items are not available, estimates are based on figures derived from data of respondent institutions that have similar characteristics, including highest degree granted and type of institutional control (public or private). In this publication, the letter "i" is used to identify imputed data and the letter "e" is used when institutional respondents indicated that their data were estimated, or when data required slight mathematical adjustments.

Data presented in trend tables are assembled from the most recently completed survey cycle. Since prior years' data are reviewed for consistency with current year responses and, when necessary, are revised in consultation with institutional respondents, references to prior years' data should be restricted to this document.

Requests for additional information concerning the survey findings for the current or prior surveys should be directed to M. Marge Machen at—

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SECTION A.
TECHNICAL NOTES

SCOPE OF THE SURVEY

Data for the National Science Foundation's (NSF) fiscal year (FY) 2000 report on research and development (R&D) expenditures were collected from 623 institutions of higher education in the United States and Outlying Areas. These institutions have doctoral programs in science and engineering (S&E), are historically black colleges or universities (HBCUs) that expend any amount of separately budgeted R&D in S&E, or are master's or bachelor's degree-granting institutions that expend at least \$150,000 in separately budgeted R&D in S&E.

In addition, the survey includes 16 federally funded research and development centers (FFRDCs). To qualify, an FFRDC must be engaged in basic or applied research, development, or management of R&D activities, and the results of these activities must be directly monitored by the Federal Government—usually a single agency—in a relationship expected to be maintained on a long-term basis. The center must be operated, managed, and administered by either a university or consortium of universities as an autonomous organization or as an identifiable separate operating unit of its parent institution. Finally, 70 percent or more of the center's financial support must be received from the Federal Government.

Although the same survey form (NSF Form 411) is used to collect data from both academic institutions and FFRDCs, the resulting data are presented separately in this report. The survey population was reviewed prior to mailing the questionnaires to ensure that each institutional classification was accurate. Characteristics of the schools were reviewed before and during the course of the survey to determine if changes had occurred (i.e., in highest degree granted or in terms of school openings, closings, or mergers).

FY 2000 SURVEY FRAME DESIGN

Starting with the FY 1998 survey, NSF has conducted a full population survey each year. NSF has also conducted a population review each year to ensure that all institutions that meet the inclusion criteria are, in fact, surveyed. This review is based on the survey frame design developed in FY 1998:

- Only S&E bachelor's and higher degree-granting institutions are surveyed.
- All S&E doctorate-granting institutions and all HBCUs are surveyed.

- All S&E master's and bachelor's degree-granting institutions that reported at least \$150,000 in separately budgeted R&D expenditures in S&E in the previous fiscal year are surveyed. NSF contacted the master's and bachelor's degree-granting institutions that were not in the FYs 1995 through 1999 academic R&D expenditures populations to determine if they met the \$150,000 expenditure criterion. Institutions with a minimum of \$150,000 were retained in the survey population.

In FY 2000, NSF conducted a population review using the above criteria. As a result of adding and deleting institutions from the survey population to comply with the inclusion criteria, the overall number of institutions surveyed increased from 597 in FY 1999 to 623 in FY 2000.

SURVEY INSTRUMENT

Most major R&D performers have incorporated into their record-keeping systems the data that are essential to complete this survey, thereby ensuring a consistent format from one year to the next. Such consistency yields the most useful statistics for time series. As a rule, information to complete this questionnaire is found within the institutions' year-end accounting records.

The survey questionnaire consists of five main items:

Item 1 is a request that institutions report their total current expenditures for separately budgeted science and engineering R&D for all activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit (i.e., research centers) within the institution, by source of funds. In addition, schools are asked to provide the percentage of the total and the percentage of the federally financed expenditures that are considered basic research. Also included are research funds for which an outside organization, educational or other, is a subrecipient. Care should be observed when interpreting data on source of funds; for example, industry R&D support is limited to grants and contracts for R&D activities from profit-making organizations. Total industry funds excludes research funded through unrestricted accounts and from corporate foundations, endowments, and fellowships to students; those funds would be included in an institution's own funding totals. An increasing number of institutions have linkages with industry and foundations via subcontracts, thus complicating the identification of funding source.

In addition, institutional policy may determine whether unrestricted State support is reported as State or as institutional funding.

Item 1A, added in FY 1996, is a request for total and federally financed current fund expenditures for separately budgeted science and engineering R&D passed through the institution to subrecipients. Schools are asked to break out the subrecipient category by “educational” and “other.”

Item 1B, added in FY 2000, is a request for total and federally financed current fund expenditures for separately budgeted science and engineering R&D received by the institution as a subrecipient. Schools are asked to break out the source of these funds into “educational” and “other.”

Item 2 is a request for total and federally financed current fund expenditures for separately budgeted R&D activities by detailed S&E fields. Major fields remain unchanged from the FY 1994 questionnaire. In the FY 1997 questionnaire, a subfield of bioengineering/biomedical engineering was added under Engineering. When interpreting these data at the detailed discipline level, users should keep in mind that there is considerable interdisciplinary and multidisciplinary activity.

Item 3 is a request for the portions of total and federally financed expenditures reported in items 1 and 2 that were used for the purchase of research equipment out of current funds. This portion includes all research equipment purchased under sponsored research project awards and disbursed in the same detailed disciplines as in item 2. These data are of special interest to Federal and institutional policymakers in determining current funding levels for scientific research instrumentation.

ITEM 1A ANALYSIS

Because the responses to this item were not published in any of the Detailed Statistical Tables in FYS 1996 or 1997, the technical notes for these publications included summary tables. For FY 2000, in addition to the following summary and tables, NSF is including two ranking tables in the section A tables based on item 1A data.

This item was completed by 89.2 percent of the respondents. The total R&D expenditures passed through to subrecipients, \$1.4 billion, represented 5.8 percent of item 1A respondents’ total R&D expenditures and 4.8 percent of all separately budgeted R&D in FY 2000

(table 1). The doctorate-granting institutions reported a higher percentage of pass-through funds than the non-doctorate-granting institutions. Item 1A respondents from doctorate-granting institutions reported \$1.4 billion (5.8 percent) of their total R&D expenditures were passed through to subrecipients, versus \$13 million (3.4 percent) of item 1A non-doctorate-granting respondents. Item 1A respondents from private institutions reported a higher percentage (6.8 percent) of pass-through funds than those from public institutions (5.2 percent).

Respondents to this question reported \$1.2 billion in Federal R&D funds passed through to subrecipients. This amount represented 8.3 percent of the Federal support reported by item 1A respondents and 6.9 percent of the \$17 billion in total Federal support (table 2).

Table A-6 shows the total amount of R&D expenditures passed through to subrecipients for the 100 institutions reporting the highest amounts. Table A-7 shows the total amount of Federal R&D expenditures passed through to subrecipients for the 100 institutions reporting the highest amounts. Participants in a June 1999 workshop in Boulder, CO, recommended publishing these data in this report. Respondents who provided item 1A data were contacted to obtain their concurrence with the publication of these data at the institutional level.

ITEM 1B ANALYSIS

Because this item is so closely related to item 1A, it will appear in these technical notes in much the same manner. In addition to the following summary and tables, NSF is including two ranking tables in the section A tables based on item 1B data.

This item was completed by 81.5 percent of the respondents. The total R&D expenditures received as subrecipients, \$1.8 billion, represented 8.1 percent of item 1B respondents’ total R&D expenditures and 5.9 percent of all separately budgeted R&D in FY 2000 (table 3). The doctorate-granting institutions reported a lesser percentage of funds received as subrecipients than the non-doctorate-granting institutions. Item 1B respondents from doctorate-granting institutions reported \$1.7 billion (8.1 percent) of their total R&D expenditures were received as subrecipients, versus \$33 million (9.3 percent) of item 1B non-doctorate-granting respondents. Item 1B respondents from private institutions reported a higher percentage (9.8 percent) of funds received as subrecipients than those from public institutions (7.2 percent).

Table 1. FY 2000 item 1A summary of total academic R&D expenditures

Highest degree and control	All respondents' total R&D ¹	Item 1A respondents' total R&D ²	Total R&D expenditures passed to subrecipients		
			Educational subrecipients	Other subrecipients	Total ³
[In thousands of dollars]					
All academic institutions.....	30,005,225	24,714,095	704,533	478,920	1,425,734
Doctorate.....	29,554,959	24,327,272	695,544	474,633	1,412,417
Non-doctorate.....	450,266	386,823	8,989	4,287	13,317
Public.....	20,470,561	16,001,581	392,976	314,811	830,451
Private.....	9,534,664	8,712,514	311,557	164,109	595,283

¹This total is the amount prior to imputation for non-respondents.

²Item 1A measures the amount of R&D expenditures passed through the institution to subrecipients.

³Detail may not sum to totals due to rounding and because some institutions provided only total and Federal R&D expenditure data passed through to subrecipients.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table 2. FY 2000 item 1A summary of Federal academic R&D expenditures

Highest degree and control	All respondents' Federal R&D ¹	Item 1A respondents' Federal R&D ²	Federal R&D expenditures passed to subrecipients		
			Educational subrecipients	Other subrecipients	Total ³
[In thousands of dollars]					
All academic institutions.....	17,446,138	14,472,543	630,366	376,841	1,204,814
Doctorate.....	17,161,994	14,228,707	621,933	373,042	1,192,541
Non-doctorate.....	284,144	243,836	8,433	3,799	12,273
Public.....	10,595,237	8,242,075	347,914	270,828	707,663
Private.....	6,850,901	6,230,468	282,452	106,013	497,151

¹This total is the amount prior to imputation for non-respondents.

²Item 1A measures the amount of R&D expenditures passed through the institution to subrecipients.

³Detail may not sum to totals due to rounding and because some institutions provided only total and Federal R&D expenditure data passed through to subrecipients.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Respondents to this question reported \$1.5 billion in Federal R&D funds received as subrecipients. This amount represented 11.2 percent of the Federal support reported by item 1B respondents and 8.3 percent of the \$17 billion in total Federal support (table 4).

Table A-8 shows total amount of R&D expenditures received as subrecipients for the 100 institutions reporting the highest amounts. Table A-9 shows the total amount of Federal R&D expenditures received as subrecipients for the 100 institutions reporting the highest amounts.

RESPONSE RATE

The FY 2000 survey questionnaires were mailed in November 2000. Respondents could choose to submit a paper questionnaire or use a Web data collection system to respond to the survey. Every effort was made to maintain close contact with respondents in order to preserve both consistency and continuity in the resultant data. Questionnaires were carefully examined for completeness upon receipt. Computerized facsimiles of the survey data were then prepared for each institution, comparing the current and 2 prior years' data and noting any substantive disparities. A personalized e-mail message was sent to the respondents so they could provide revisions before final processing and tabulation of the data. The e-mail message included a Web link to the academic R&D expenditures Web-based data collection system, allowing respondents to view and correct their data via the Web.

Respondents were asked to explain significant discrepancies between current and prior years' reporting patterns previously verified as correct (see Data Anomalies for more information). They were encouraged to correct prior years' data if anomalies were identified. When updated or amended figures covering past years were submitted, NSF correspondingly changed trend data. Similarly, if a respondent institution underwent an organizational change, such as a merger, NSF incorporated the effects of such changes into prior years' data.

By the survey closing date at the beginning of July 2001, forms had been received from 607 universities and colleges out of the academic population of 624, resulting in a 97-percent response rate. Responses were received from 98.6 percent of all doctorate-granting institutions, where 98.5 percent of the estimated national R&D expenditures in S&E fields was disbursed. Also, forms were received from all of the 16 FFRDCs. Table A-1 displays a detailed breakdown of the response rates by highest degree granted.

IMPUTATION

To provide a national estimate for all universities and colleges performing R&D in FY 2000, it was necessary to implement two statistical procedures. First, data were estimated by "imputation" for the seventeen institutions that had not responded by the closing date of the survey, using imputation techniques that have been used consistently since FY 1976. Second, data were also imputed for universities and colleges that submitted only partial responses. The imputed total was \$57 million, or 0.2 percent of the \$30 billion total R&D expenditures, as shown in Table A-2.

Tables A-3a and A-3b present breakdowns of the total and Federal imputed amounts by S&E fields. The dollar amount imputed is displayed along with the percentage it represents of the national estimate for universities and colleges in a particular field. The amount imputed is similarly broken down by source of funds in table A-4.

A number of surveyed institutions have responded only intermittently in past years, providing data one year, not responding for one or more subsequent years, and then providing data again. For the years in which no response was received, data have been imputed as previously described. Although the imputation algorithm accurately reflects national trends, it cannot account for specific trends at individual institutions. For this reason, a separate backcasting of prior years' data was performed, following current-year imputation.

For each institution, formerly imputed key variables for items 1 to 3 were recomputed to ensure that the imputed data accurately represent the growth patterns shown by reported data. If data were reported for fiscal years 1996 and 2000 but not for the intervening years, for example, the difference between the reported figures for each item total was calculated and evenly distributed across the intervening years (1997–1999). The new figures were spread across disciplines (items 2 and 3) or sources of support (item 1) on the basis of the most recent reporting pattern. A clean facsimile was generated for each of the institutions undergoing these procedures and returned to the school for comment. These procedures result in much more consistent reporting trends for individual institutions but have little effect upon aggregate figures reflecting national totals.

Table 3. FY 2000 item 1B summary of total academic R&D expenditures

Highest degree and control	All respondents' total R&D ¹	Item 1B respondents' total R&D ²	Total R&D expenditures received as subrecipients
[In thousands of dollars]			
All academic institutions.....	30,005,225	21,884,444	1,781,609
Doctorate.....	29,554,959	21,530,382	1,748,694
Non-doctorate.....	450,266	354,062	32,915
Public.....	20,470,561	14,040,000	1,014,135
Private.....	9,534,664	7,844,444	767,474

¹This total is the amount prior to imputation for non-respondents.

²Item 1B measures the amount of R&D expenditures received by the institution as a subrecipient.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table 4. FY 2000 item 1B summary of Federal academic R&D expenditures

Highest degree and control	All respondents' Federal R&D ¹	Item 1B respondents' Federal R&D ²	Total R&D expenditures received as subrecipients
[In thousands of dollars]			
All academic institutions.....	17,446,138	12,936,781	1,450,270
Doctorate.....	17,161,994	12,709,071	1,422,091
Non-doctorate.....	284,144	227,710	28,179
Public.....	10,595,237	7,312,038	833,553
Private.....	6,850,901	5,624,743	616,717

¹This total is the amount prior to imputation for non-respondents.

²Item 1B measures the amount of R&D expenditures received by the institution as a subrecipient.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

DATA ANOMALIES

Aggregate academic expenditure data are generally consistent from year to year, although data for individual institutions may vary considerably. Data anomalies may reflect true increases or decreases in expenditures or may be the result of changes in reporting methodology.

STATE TABLES

The Detailed Statistical Tables showing R&D expenditures at individual institutions by State provide detailed campus listings for the University of Tennessee, the University of Colorado, and Louisiana State University in FY 2000.

HIGHEST-DEGREE-GRANTED TABLES

Several longitudinal tables display data for institutions whose highest S&E degree granted is at the doctoral level. In tables produced prior to FY 1992, it would have been difficult to identify whether changes in yearly R&D expenditures were caused by changes in expenditure levels or in the number of doctorate-granting institutions. In order to maintain a consistent group of institutions across all years, the highest-degree-granted status for each institution is based on the highest degree granted in the most recent year, FY 2000.

DATA AVAILABILITY

Data published in this report are also available in machine-readable form on the World Wide Web. Single-year or multi-year data files are available with data for FYs 1975 through 2000.

Information on file formats and the years for which they are available can be found on the Web at <http://www.nsf.gov/sbe/srs/rdexp00/rdpub00/00pubuse.htm>.

Selected data items for institutions are available on the Web at <http://www.nsf.gov/sbe/srs/profiles/start.htm>.

These profiles cover data from this survey as well as data collected in NSF's other academic S&E surveys: the Survey of Graduate Students and Postdoctorates in Science and Engineering (graduate student survey) and the Survey of Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions (Federal S&E support survey). The profiles are also linked to the corresponding ranking table of each survey.

Institutional researchers can obtain data from several academic S&E resources through the Web-Based Computer-Aided Science Policy Analysis and Research (WebCASPAR) database system, which is an easy-to-use tool for the retrieval and analysis of statistical data on academic S&E resources. WebCASPAR provides an extensive and growing data library with multi-year statistics on the state of higher education in general and on academic S&E resources specifically. This data library is based on a set of standard institutional and field-of-science definitions across the multiple sources used to develop the database. The WebCASPAR program includes built-in help capabilities to facilitate the use and interpretation of the data.

The latest version of WebCASPAR can now be accessed via the Web at <http://caspar.nsf.gov/webcaspar>.

WebCASPAR data are drawn from a number of sources. All data are available for individual institutions, by State, and at the national level. Longitudinal data from surveys of universities and colleges conducted by the NSF Division of Science Resources Statistics include the academic R&D expenditures survey, the Federal S&E support survey, and the graduate student survey. Data from the surveys of universities and colleges conducted by the National Center for Education Statistics include earned degrees, opening fall enrollment, tuition, faculty salaries, tenure and fringe benefits, and financial statistics.

SECTION A.

TABLES

SECTION A. TABLES

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Table A-1. Response rates for the academic research and development expenditures survey, by respondent type and highest degree granted: fiscal year 2000

Respondent type and highest degree granted	Number in survey universe	Number of complete responses	Number of partial responses	Total number of responses	Response rate
Total	639	510	112	622	97.3
Universities and colleges	623	494	112	606	97.3
Doctorate	362	294	63	357	98.6
Master's	162	127	31	158	97.5
Bachelor's and below	99	73	18	91	91.9
Academically-administered FFRDCs	16	16	0	16	100.0

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table A-2. Imputed amounts for total research and development expenditures at universities and colleges, by highest degree granted:
fiscal year 2000**

[Dollars in millions]

Highest degree granted	Total separately budgeted R&D expenditures	Imputed amount	Imputed amount as percent of total
Total	30,062	57	0.2
Doctorate granting institutions	29,597	42	0.1
Non-doctorate granting institutions	466	15	3.3

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-3a. Imputed amounts for total research and development expenditures at universities and colleges, by science and engineering field: fiscal year 2000

[Dollars in millions]

Science and engineering field	Total separately budgeted R&D expenditures	Imputed amount	Imputed amount as percent of total
Total	30,062	57	0.2
Engineering	4,550	28	0.6
Aeronautical and astronautical	252	30	12.0
Bioengineering/bio-medical	172	11	6.4
Chemical	374	9	2.5
Civil	596	9	1.6
Electrical	1,113	88	7.9
Mechanical	632	64	10.1
Metallurgical and materials	399	2	0.4
Other, n.e.c.	1,012	95	9.3
Physical sciences	2,706	20	0.7
Astronomy	391	0	0.0
Chemistry	959	9	0.9
Physics	1,199	9	0.8
Other, n.e.c.	157	2	1.1
Environmental sciences	1,769	13	0.8
Atmospheric	289	18	6.3
Earth sciences	566	26	4.5
Oceanography	632	34	5.4
Other, n.e.c.	282	38	13.5
Mathematical sciences	341	6	1.6
Computer sciences	878	6	0.7
Life sciences	17,480	31	0.2
Agricultural sciences	2,179	12	0.5
Biological sciences	5,609	15	0.3
Medical sciences	9,003	4	0.0
Other, n.e.c.	689	1	0.2
Psychology	516	2	0.4
Social sciences	1,296	14	1.1
Economics	255	3	1.3
Political science	227	2	0.7
Sociology	302	11	3.8
Other, n.e.c.	512	8	1.6
Other sciences, n.e.c.	526	15	2.9

KEY: n.e.c. = not elsewhere classified

NOTES: The imputation rate at the total level is lower than the imputation rates at the S&E field levels because many institutions could provide totals but not the S&E field details.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-3b. Imputed amounts for federally financed research and development expenditures at universities and colleges, by science and engineering field: fiscal year 2000

[Dollars in millions]

Science and engineering field	Total separately budgeted R&D expenditures	Imputed amount	Imputed amount as percent of total
Total	17,493	47	0.3
Engineering	2,563	18	0.7
Aeronautical and astronautical	176	29	16.5
Bioengineering/bio-medical	90	9	9.9
Chemical	195	8	3.9
Civil	232	7	3.2
Electrical	695	84	12.1
Mechanical	382	59	15.4
Metallurgical and materials	226	2	0.7
Other, n.e.c.	567	87	15.4
Physical sciences	1,912	12	0.6
Astronomy	282	0	0.1
Chemistry	629	5	0.8
Physics	896	7	0.7
Other, n.e.c.	106	1	0.5
Environmental sciences	1,131	11	1.0
Atmospheric	223	17	7.6
Earth sciences	330	22	6.7
Oceanography	421	30	7.1
Other, n.e.c.	157	32	20.3
Mathematical sciences	229	5	2.1
Computer sciences	582	6	1.0
Life sciences	10,060	19	0.2
Agricultural sciences	579	7	1.2
Biological sciences	3,646	11	0.3
Medical sciences	5,444	2	0.0
Other, n.e.c.	391	2	0.5
Psychology	350	1	0.4
Social sciences	490	9	1.9
Economics	89	3	3.4
Political science	62	1	1.6
Sociology	137	8	5.9
Other, n.e.c.	202	5	2.5
Other sciences, n.e.c.	177	8	4.4

KEY: n.e.c. = not elsewhere classified

NOTES: The imputation rate at the total level is lower than the imputation rates at the S&E field levels because many institutions could provide totals but not the S&E field details.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-4. Imputed amounts for research and development expenditures at universities and colleges, by source of funds: fiscal year 2000

[Dollars in millions]

Source of funds	Total separately budgeted R&D expenditures	Imputed amount	Imputed amount as percent of total
Total	30,062	57	0.2
Federal Government	17,493	47	0.3
State and local government	2,204	4	0.2
Industry	2,178	5	0.2
Institutional funds	5,924	13	0.2
All other sources	2,262	10	0.5

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-5. Number of surveyed institutions for the academic research and development expenditures survey, by respondent type and highest degree granted: fiscal years 1995-2000

Respondent type and highest degree granted	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
Total	517	511	511	572	614	639
Universities and colleges	499	493	493	555	597	623
Doctorate	348	343	343	357	359	362
Master's	84	84	84	118	148	162
Bachelor's and below	67	66	66	80	90	99
Academically-administered FFRDCs	18	18	18	17	17	16

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-6. Total amount of R&D expenditures passed through to subrecipients by universities and colleges, ranked by amount passed through: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D expenditures passed through ¹	Total R&D expenditures	Total R&D expenditures passed through	Amounts passed through	
			Educational subrecipients	Other subrecipients
Total, all institutions	30,062,371	1,425,734	704,533	478,920
1 Stanford University	454,780	60,753	--	--
2 Duke University	356,625	53,019	24,188	28,831
3 University of Colorado	353,528	49,485	11,613	37,872
4 California Inst of Tech	222,666	34,139	34,139	0
5 Harvard University	341,810	33,947	10,253	23,694
6 Columbia U in City of NY	319,693	32,534	18,385	14,149
7 U MD at College Park	252,429	30,071	0	30,071
8 U of Pennsylvania	430,389	29,359	16,881	12,478
9 U of Nebraska at Lincoln	136,023	29,004	20,402	8,602
10 U of Southern California	300,445	27,895	16,284	11,611
Total, 1st 10 institutions	3,168,388	380,206	152,145	167,308
11 University of Arizona	345,090	27,484	15,117	12,367
12 U of Illinois Urbana-Cham	373,024	25,994	24,892	1,102
13 Pennsylvania State U	427,575	23,639	9,657	13,982
14 MA Institute of Tech	426,299	22,656	11,058	11,598
15 University of Minnesota	411,380	21,296	--	--
16 University of Michigan	551,556	20,799	14,407	6,392
17 Georgia Institute of Tech	304,511	20,357	--	--
18 U WI-Madison	554,361	19,749	10,918	8,831
19 Northwestern University	245,774	19,031	--	--
20 Baylor Col of Medicine	334,175	18,454	18,094	360
Total, 1st 20 institutions	7,142,133	599,665	256,288	221,940
21 U of NC Chapel Hill	269,072	17,890	7,029	10,861
22 Cornell University	410,393	17,800	--	--
23 Yale University	296,706	17,184	--	--
24 UT Houston Hlth Sci Ctr	119,587	16,666	7,957	8,709
25 U of Alabama Birmingham	233,461	15,063	--	--
26 Texas A&M University	397,268	14,502	11,034	3,468
27 George Washington U	69,300	13,885	13,885	0
28 NC State University	277,946	13,422	6,395	7,027
29 Ohio State University	361,399	13,160	5,339	7,821
30 University of Pittsburgh	294,809	12,994	7,017	5,977
Total, 1st 30 institutions	9,872,074	752,231	314,944	265,803
31 New Mexico State Univ	79,695	12,203	1,876	10,327
32 University of Chicago	170,678	12,148	9,973	2,175
33 U TX at Austin	272,811	12,126	6,089	6,037
34 U of South Florida	145,397	11,798	--	--
35 Florida State University	105,095	11,512	2,206	9,306
36 Purdue University	234,536	11,458	8,237	3,221
37 Rutgers the State U NJ	225,268	11,090	7,666	3,424
38 Montana St U Bozeman	65,324	10,653	--	--
39 Michigan State University	227,734	10,641	7,604	3,037
40 Washington University	362,216	10,587	7,399	3,188
Total, 1st 40 institutions	11,760,828	866,447	365,994	306,518

See explanatory information and SOURCE at end of table.

Table A-6. Total amount of R&D expenditures passed through to subrecipients by universities and colleges, ranked by amount passed through: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D expenditures passed through ¹	Total R&D expenditures	Total R&D expenditures passed through	Amounts passed through	
			Educational subrecipients	Other subrecipients
41 Case Western Reserve U	193,057	10,271	10,271	0
42 Wake Forest University	86,840	9,877	9,877	0
43 University of Rochester	197,335	9,806	5,789	4,017
44 University of Utah	187,661	9,711	5,377	4,334
45 University of Miami	145,795	9,536	4,165	5,371
46 Indiana University	227,737	8,587	4,464	4,123
47 Arizona State University	108,117	8,235	1,743	6,492
48 Boston University	154,029	8,233	4,599	3,634
49 New York University	182,205	8,191	6,443	1,748
50 University of IL Chicago	195,839	8,045	4,350	3,695
Total, 1st 50 institutions	13,439,443	956,939	423,072	339,932
51 University of Connecticut	161,084	7,969	4,528	3,441
52 Louisiana State U System	251,233	7,883	4,343	3,540
53 U TX Hlth Sci Ctr San Ant	103,824	7,840	2,027	5,813
54 Emory University	206,070	7,826	4,837	2,989
55 U of New Hampshire	72,108	7,681	--	--
56 University of Georgia	258,476	7,597	--	--
57 Oregon State University	140,751	7,496	3,333	4,163
58 U of Iowa	236,944	7,477	--	--
59 U of Alaska Fairbanks	102,500	7,462	--	--
60 University of Virginia	174,522	7,307	4,482	2,825
Total, 1st 60 institutions	15,146,955	1,033,477	446,622	362,703
61 Vanderbilt University	171,926	7,262	4,864	2,398
62 VA Polytech Inst & St U	192,672	7,074	3,581	3,493
63 University of New Mexico	133,980	6,855	6,380	475
64 SUNY at Stony Brook	163,307	6,821	--	--
65 University of Kentucky	202,392	6,815	6,815	0
66 Tulane University	89,785	6,804	6,192	612
67 Princeton University	134,875	6,629	3,382	3,247
68 Mississippi State U	132,503	6,596	6,031	565
69 Eastern VA Med School	23,299	6,252	2,338	3,914
70 University of Alabama, The	31,847	6,156	4,082	2,074
Total, 1st 70 institutions	16,423,541	1,100,741	490,287	379,481
71 Yeshiva University	139,618	6,114	6,114	0
72 SUNY Hlth Sci Ctr Brklyn	31,626	5,973	5,973	0
73 Mt Sinai Sch Med	149,846	5,930	5,930	0
74 Washington State U	104,796	5,869	4,052	1,817
75 University of Florida	313,692	5,811	5,230	581
76 Thomas Jefferson U	89,626	5,536	4,525	1,011
77 Wayne State University	156,814	5,366	2,843	2,523
78 University of Dayton	39,345	5,241	1,310	3,931
79 University of Oklahoma	150,902	5,155	2,847	2,308
80 U TX at El Paso	20,877	5,131	4,696	435
Total, 1st 80 institutions	17,620,683	1,156,867	533,807	392,087

See explanatory information and SOURCE at end of table.

Table A-6. Total amount of R&D expenditures passed through to subrecipients by universities and colleges, ranked by amount passed through: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D expenditures passed through ¹	Total R&D expenditures	Total R&D expenditures passed through	Amounts passed through	
			Educational subrecipients	Other subrecipients
81 Dartmouth College	78,874	5,105	3,130	1,975
82 SUNY at Buffalo	187,692	5,055	3,172	1,883
83 U TX MD Anderson Cnrc Ctr	182,196	5,005	3,819	1,186
84 Rice University	41,840	4,774	4,052	722
85 Auburn University	92,612	4,724	3,497	1,227
86 U of South Carolina	104,398	4,625	4,001	624
87 U MA Amherst	97,052	4,550	4,550	0
88 U of Maine	54,821	4,399	359	4,040
89 University of Cincinnati	172,085	4,389	1,758	2,631
90 Brandeis University	47,658	4,360	1,493	2,867
Total, 1st 90 institutions	18,679,911	1,203,853	563,638	409,242
91 University of Delaware	74,711	4,345	2,094	2,251
92 U MA Worcester	97,587	4,281	4,281	0
93 U of Missouri Columbia	158,861	4,278	2,257	2,021
94 Brown University	81,476	4,253	2,887	1,366
95 MCP Hahnemann University	41,670	4,253	2,515	1,738
96 U TX Med Br at Galveston	97,896	4,166	3,082	1,084
97 U Med & Dent of NJ	140,951	3,979	3,979	0
98 U of Alabama Huntsville	41,274	3,881	1,009	2,872
99 Colorado State University	152,279	3,875	3,178	697
100 West Virginia University	66,130	3,862	2,757	1,105
Total, 1st 100 institutions	19,632,746	1,245,026	591,677	422,376
Total, all other sampled institutions	10,429,625	180,708	112,856	56,544

¹ Only the top 100 institutions that reported the largest amount of passed through funds are shown on this table.

KEY: -- = not available

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-7. Total amount of Federal R&D expenditures passed through to subrecipients by universities and colleges, ranked by amount passed through: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D Federal expenditures passed through ¹	Federal R&D expenditures	Federal R&D expenditures passed through	Federal amounts passed through	
			Educational subrecipients	Other subrecipients
Total, all institutions	17,493,473	1,204,814	630,366	376,841
1 Stanford University	367,127	59,499	--	--
2 University of Colorado	300,394	48,608	11,221	37,387
3 California Inst of Tech	176,177	34,139	34,139	0
4 Harvard University	281,699	30,455	9,378	21,077
5 U MD at College Park	136,605	30,057	0	30,057
6 Columbia U in City of NY	283,163	27,014	17,832	9,182
7 U of Southern California	210,872	26,008	15,516	10,492
8 U of Nebraska at Lincoln	37,831	24,073	15,699	8,374
9 University of Arizona	187,161	23,661	13,014	10,647
10 U of Pennsylvania	312,434	23,506	13,142	10,364
Total, 1st 10 institutions	2,293,463	327,020	129,941	137,580
11 Duke University	204,180	23,472	23,472	0
12 U of Illinois Urbana-Cham	193,490	22,868	21,930	938
13 Pennsylvania State U	226,074	19,777	7,473	12,304
14 University of Minnesota	229,958	19,243	--	--
15 MA Institute of Tech	306,668	19,097	9,337	9,760
16 University of Michigan	364,033	18,900	13,700	5,200
17 Baylor Col of Medicine	193,249	18,454	18,094	360
18 U WI-Madison	278,629	18,022	10,127	7,895
19 U of NC Chapel Hill	194,794	17,890	7,029	10,861
20 Cornell University	229,872	16,663	--	--
Total, 1st 20 institutions	4,714,410	521,406	241,103	184,898
21 UT Houston Hlth Sci Ctr	79,665	15,354	7,111	8,243
22 Northwestern University	150,238	14,564	--	--
23 U of Alabama Birmingham	175,309	14,141	--	--
24 Yale University	232,019	13,450	--	--
25 University of Pittsburgh	228,155	11,868	6,053	5,815
26 New Mexico State Univ	57,073	11,303	1,848	9,455
27 George Washington U	49,627	11,082	11,082	0
28 University of Chicago	140,872	10,721	8,662	2,059
29 U TX at Austin	178,889	10,295	5,973	4,322
30 Case Western Reserve U	150,586	10,271	10,271	0
Total, 1st 30 institutions	6,156,843	644,455	292,103	214,792
31 Texas A&M University	149,639	10,244	9,177	1,067
32 Florida State University	56,830	10,083	1,950	8,133
33 U of South Florida	50,557	9,946	--	--
34 Washington University	254,148	9,925	7,017	2,908
35 Ohio State University	132,219	9,732	4,145	5,587
36 University of Utah	124,344	9,623	5,328	4,295
37 Purdue University	92,010	9,506	7,811	1,695
38 Michigan State University	97,112	9,092	6,439	2,653
39 Rutgers the State U NJ	79,711	8,652	6,528	2,124
40 Boston University	133,730	8,233	4,599	3,634
Total, 1st 40 institutions	7,327,143	739,491	345,097	246,888

See explanatory information and SOURCE at end of table.

Table A-7. Total amount of Federal R&D expenditures passed through to subrecipients by universities and colleges, ranked by amount passed through: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D Federal expenditures passed through ¹	Federal R&D expenditures	Federal R&D expenditures passed through	Federal amounts passed through	
			Educational subrecipients	Other subrecipients
41 NC State University	77,328	8,017	3,464	4,553
42 New York University	117,163	7,971	6,389	1,582
43 U TX Hlth Sci Ctr San Ant	65,251	7,840	2,027	5,813
44 Arizona State University	49,935	7,838	1,649	6,189
45 Emory University	144,914	7,505	4,682	2,823
46 Wake Forest University	65,585	7,353	7,353	0
47 University of Georgia	62,678	7,306	--	--
48 Indiana University	107,577	7,260	3,740	3,520
49 U of New Hampshire	38,921	7,205	--	--
50 Montana St U Bozeman	30,564	7,082	--	--
Total, 1st 50 institutions	8,087,059	814,868	374,401	271,368
51 University of Rochester	150,593	7,055	5,282	1,773
52 Louisiana State U System	89,007	7,035	3,986	3,049
53 University of New Mexico	100,442	6,728	6,253	475
54 University of Connecticut	66,144	6,667	3,928	2,739
55 University of Virginia	119,243	6,624	4,378	2,246
56 Tulane University	52,080	6,601	6,080	521
57 U of Iowa	140,764	6,522	--	--
58 U of Alaska Fairbanks	46,605	6,430	--	--
59 Mississippi State U	53,808	6,333	5,792	541
60 SUNY at Stony Brook	96,641	6,151	--	--
Total, 1st 60 institutions	9,002,386	881,014	410,100	282,712
61 Yeshiva University	101,631	6,114	6,114	0
62 Mt Sinai Sch Med	98,188	5,930	5,930	0
63 SUNY Hlth Sci Ctr Brklyn	22,860	5,896	5,896	0
64 VA Polytech Inst & St U	71,127	5,700	3,555	2,145
65 Oregon State University	80,398	5,569	3,324	2,245
66 University of Miami	106,633	5,511	3,143	2,368
67 Thomas Jefferson U	67,448	5,312	4,450	862
68 University of Kentucky	73,858	5,262	5,262	0
69 University of Dayton	31,717	5,219	1,305	3,914
70 University of Florida	120,374	5,097	4,587	510
Total, 1st 70 institutions	9,776,620	936,624	453,666	294,756
71 Vanderbilt University	129,986	5,011	3,643	1,368
72 U TX MD Anderson Cnrc Ctr	81,872	5,005	3,819	1,186
73 University of IL Chicago	101,943	4,948	3,368	1,580
74 Washington State U	48,441	4,838	3,235	1,603
75 U TX at El Paso	16,416	4,767	4,651	116
76 Rice University	35,144	4,706	3,984	722
77 SUNY at Buffalo	96,410	4,611	2,907	1,704
78 Princeton University	74,681	4,597	2,276	2,321
79 Dartmouth College	56,369	4,559	2,907	1,652
80 U MA Amherst	44,697	4,550	4,550	0
Total, 1st 80 institutions	10,462,579	984,216	489,006	307,008

See explanatory information and SOURCE at end of table.

Table A-7. Total amount of Federal R&D expenditures passed through to subrecipients by universities and colleges, ranked by amount passed through: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D Federal expenditures passed through ¹	Federal R&D expenditures	Federal R&D expenditures passed through	Federal amounts passed through	
			Educational subrecipients	Other subrecipients
81 University of Cincinnati	110,475	4,389	1,758	2,631
82 U of Maine	24,412	4,360	359	4,001
83 Wayne State University	64,320	4,338	2,595	1,743
84 U of Missouri Columbia	65,420	4,278	2,257	2,021
85 Auburn University	31,515	4,251	3,200	1,051
86 U TX Med Br at Galveston	61,357	4,166	3,082	1,084
87 U MA Worcester	64,212	4,074	4,074	0
88 Brown University	49,943	3,991	2,755	1,236
89 U Med & Dent of NJ	75,318	3,979	3,979	0
90 Colorado State University	101,429	3,854	3,158	696
Total, 1st 90 institutions	11,110,980	1,025,896	516,223	321,471
91 University of Oklahoma	60,542	3,840	1,960	1,880
92 University of Alabama, The	19,486	3,810	3,710	100
93 U of Nevada Las Vegas	13,815	3,809	3,148	661
94 U of Alabama Huntsville	25,939	3,726	923	2,803
95 U MD Biotechnology Inst	11,157	3,626	3,468	158
96 University of Delaware	37,716	3,604	1,486	2,118
97 Eastern VA Med School	12,114	3,450	1,345	2,105
98 San Diego St University	22,802	3,399	2,877	522
99 U of South Carolina	51,872	3,355	3,005	350
100 Desert Research Institute	19,923	3,262	2,423	839
Total, 1st 100 institutions	11,386,346	1,061,777	540,568	333,007
Total, all other sampled institutions	6,107,127	143,037	89,798	43,834

¹ Only the top 100 institutions that reported the largest amount of passed through funds are shown on this table.

KEY: -- = not available

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table A-8. Total amount of R&D expenditures received as a subrecipient by universities and colleges, ranked by amount received: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D expenditures received ¹	Total R&D expenditures	Total R&D expenditures received as a subrecipient
Total, all institutions	30,062,371	1,781,609
1 Cornell University	410,393	269,603
2 Texas A&M University	397,268	65,153
3 MA Institute of Tech	426,299	51,216
4 Stanford University	454,780	47,430
5 University of Michigan	551,556	34,223
6 Ohio State University	361,399	32,671
7 U WI-Madison	554,361	30,965
8 Harvard University	341,810	29,944
9 U TX at Austin	272,811	29,600
10 Georgia Institute of Tech	304,511	29,422
Total, 1st 10 institutions	4,075,188	620,227
11 U of Southern California	300,445	28,201
12 University of Colorado	353,528	27,768
13 California Inst of Tech	222,666	24,130
14 U of IL Urbana-Champaign	373,024	23,793
15 U MD at College Park	252,429	23,298
16 Columbia U in City of NY	319,693	23,072
17 University of Minnesota	411,380	21,575
18 U of Nebraska at Lincoln	136,023	21,075
19 Washington University	362,216	20,989
20 University of Arizona	345,090	20,705
Total, 1st 20 institutions	7,151,682	854,833
21 Rutgers the State U NJ	225,268	20,673
22 U PR Med Sci Campus	21,373	18,576
23 Northwestern University	245,774	18,256
24 Emory University	206,070	17,240
25 University of Florida	313,692	16,790
26 University of Pittsburgh	294,809	15,792
27 University of New Mexico	133,980	15,676
28 University of Chicago	170,678	15,418
29 University of Utah	187,661	15,094
30 New York University	182,205	14,886
Total, 1st 30 institutions	9,133,192	1,023,234
31 U of Alaska Fairbanks	102,500	14,618
32 University of Rochester	197,335	14,500
33 Yale University	296,706	13,510
34 Arizona State University	108,117	13,038
35 U of Alabama Birmingham	233,461	12,735
36 Louisiana State U System	251,233	12,647
37 U of South Carolina	104,398	12,529
38 Duke University	356,625	11,594
39 U of NC Chapel Hill	269,072	11,245
40 University of Oklahoma	150,902	10,817
Total, 1st 40 institutions	11,203,541	1,150,467

See explanatory information and SOURCE at end of table.

Table A-8. Total amount of R&D expenditures received as a subrecipient by universities and colleges, ranked by amount received: fiscal year 2000

[Dollars in thousands]

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Institutions ranked by total amount of R&D expenditures received ¹	Total R&D expenditures	Total R&D expenditures received as a subrecipient
41 Auburn University	92,612	10,770
42 U of Maine	54,821	10,716
43 Boston University	154,029	10,085
44 Michigan State University	227,734	10,003
45 Indiana University	227,737	9,924
46 Montana St U Bozeman	65,324	9,798
47 University of Connecticut	161,084	9,616
48 Baylor Col of Medicine	334,175	9,464
49 U of IL Chicago	195,839	9,179
50 VA Polytech Inst & St U	192,672	9,003
Total, 1st 50 institutions	12,909,568	1,249,025
51 New Mexico State Univ	79,695	8,927
52 U of Nevada Reno	56,248	8,889
53 Oregon State University	140,751	8,737
54 U of Missouri Columbia	158,861	8,677
55 Wayne State University	156,814	8,652
56 Colorado State University	152,279	8,512
57 U TX Hlth Sci Ctr San Ant	103,824	8,313
58 West Virginia University	66,130	8,124
59 U TX MD Anderson Cnrc Ctr	182,196	8,021
60 University of Idaho	61,347	8,014
Total, 1st 60 institutions	14,067,713	1,333,891
61 Vanderbilt University	171,926	7,784
62 Mississippi State U	132,503	7,608
63 Mt Sinai Sch Med	149,846	7,459
64 Florida State University	105,095	7,430
65 University of Kansas	148,670	7,200
66 Oregon Health Sciences U	131,486	7,192
67 UT Houston Hlth Sci Ctr	119,587	7,141
68 Rice University	41,840	7,084
69 U TX at El Paso	20,877	6,912
70 U of New Hampshire	72,108	6,344
Total, 1st 70 institutions	15,161,651	1,406,045
71 University of Alabama, The	31,847	6,329
72 University of Miami	145,795	6,257
73 MCP Hahnemann University	41,670	6,217
74 University of Cincinnati	172,085	6,196
75 U of Alabama Huntsville	41,274	6,182
76 Oklahoma State University	88,285	6,161
77 Woods Hole Oceanogr Inst	81,547	6,088
78 Portland State University	16,494	5,987
79 Washington State U	104,796	5,869
80 SUNY at Stony Brook	163,307	5,816
Total, 1st 80 institutions	16,048,751	1,467,147

See explanatory information and SOURCE at end of table.

**Table A-8. Total amount of R&D expenditures received as a subrecipient by universities and colleges,
ranked by amount received:
fiscal year 2000**

[Dollars in thousands]

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Institutions ranked by total amount of R&D expenditures received ¹	Total R&D expenditures	Total R&D expenditures received as a subrecipient
81 Temple University	52,466	5,769
82 University of Kentucky	202,392	5,554
83 University of Delaware	74,711	5,454
84 Tulane University	89,785	5,379
85 George Mason University	26,793	5,354
86 NM Inst Mining & Tech	23,636	5,226
87 Wake Forest University	86,840	5,165
88 Kansas State University	91,790	5,062
89 New York Medical College	23,348	4,931
90 Thomas Jefferson U	89,626	4,925
Total, 1st 90 institutions	16,810,138	1,519,966
91 Brown University	81,476	4,863
92 Desert Research Institute	25,877	4,831
93 Col of William & Mary	33,299	4,719
94 University of Georgia	258,476	4,708
95 University of Dayton	39,345	4,677
96 U MA Amherst	97,052	4,511
97 Tufts University	105,783	4,460
98 U Med & Dent of NJ	140,951	4,367
99 Michigan Tech University	27,204	4,155
100 University of Guam	4,130	4,130
Total, 1st 100 institutions	17,623,731	1,565,387
Total, all other sampled institutions	12,438,640	216,222

¹ Only the top 100 institutions that reported the largest amount of R&D expenditures received as a subrecipient are shown on this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table A-9. Total amount of Federal R&D expenditures received as a subrecipient by universities and colleges,
ranked by amount received:
fiscal year 2000**

[Dollars in thousands]

Page 1 of 3

Institutions ranked by total amount of R&D Federal expenditures received ¹	Federal R&D expenditures	Federal R&D expenditures received as a subrecipient
Total, all institutions	17,493,473	1,450,270
1 Cornell University	229,872	170,662
2 Texas A&M University	149,639	64,624
3 MA Institute of Tech	306,668	51,216
4 Stanford University	367,127	37,571
5 University of Michigan	364,033	31,430
6 U WI-Madison	278,629	30,965
7 U TX at Austin	178,889	29,600
8 University of Colorado	300,394	27,768
9 Harvard University	281,699	27,581
10 California Inst of Tech	176,177	24,130
Total, 1st 10 institutions	2,633,127	495,547
11 U MD at College Park	136,605	23,298
12 U of IL Urbana-Champaign	193,490	22,248
13 Columbia U in City of NY	283,163	21,906
14 Washington University	254,148	20,652
15 University of Arizona	187,161	20,360
16 U of Southern California	210,872	19,389
17 Rutgers the State U NJ	79,711	18,378
18 University of Minnesota	229,958	17,613
19 Emory University	144,914	16,669
20 Northwestern University	150,238	16,230
Total, 1st 20 institutions	4,503,387	692,290
21 U PR Med Sci Campus	16,657	15,945
22 University of New Mexico	100,442	15,676
23 University of Florida	120,374	15,452
24 University of Chicago	140,872	15,418
25 University of Utah	124,344	14,825
26 University of Pittsburgh	228,155	14,622
27 Yale University	232,019	13,510
28 University of Rochester	150,593	12,770
29 U of Alabama Birmingham	175,309	12,735
30 Arizona State University	49,935	12,682
Total, 1st 30 institutions	5,842,087	835,925
31 U of South Carolina	51,872	12,529
32 New York University	117,163	11,579
33 U of NC Chapel Hill	194,794	11,245
34 University of Oklahoma	60,542	10,817
35 Auburn University	31,515	10,770
36 U of Maine	24,412	10,594
37 Boston University	133,730	10,085
38 University of Connecticut	66,144	9,616
39 Baylor Col of Medicine	193,249	9,464
40 U of IL Chicago	101,943	9,179
Total, 1st 40 institutions	6,817,451	941,803

See explanatory information and SOURCE at end of table.

**Table A-9. Total amount of Federal R&D expenditures received as a subrecipient by universities and colleges,
ranked by amount received:
fiscal year 2000**

[Dollars in thousands]

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Institutions ranked by total amount of R&D Federal expenditures received ¹	Federal R&D expenditures	Federal R&D expenditures received as a subrecipient
41 VA Polytech Inst & St U	71,127	9,003
42 New Mexico State Univ	57,073	8,927
43 U of Nevada Reno	26,267	8,889
44 Oregon State University	80,398	8,715
45 Indiana University	107,577	8,696
46 U of Missouri Columbia	65,420	8,677
47 West Virginia University	28,013	8,124
48 U TX MD Anderson Cnrc Ctr	81,872	8,021
49 Vanderbilt University	129,986	7,631
50 Mississippi State U	53,808	7,595
Total, 1st 50 institutions	7,518,992	1,026,081
51 Michigan State University	97,112	7,553
52 Mt Sinai Sch Med	98,188	7,459
53 Florida State University	56,830	7,430
54 University of Idaho	23,014	7,285
55 U TX Hlth Sci Ctr San Ant	65,251	7,271
56 UT Houston Hlth Sci Ctr	79,665	7,141
57 Rice University	35,144	7,084
58 U TX at El Paso	16,416	6,912
59 Montana St U Bozeman	30,564	6,663
60 MCP Hahnemann University	27,379	6,217
Total, 1st 60 institutions	8,048,555	1,097,096
61 University of Cincinnati	110,475	6,169
62 Woods Hole Oceanogr Inst	67,036	6,088
63 U of Alabama Huntsville	25,939	6,059
64 University of Alabama, The	19,486	5,993
65 Portland State University	11,217	5,919
66 University of Kentucky	73,858	5,554
67 University of Miami	106,633	5,534
68 Oklahoma State University	24,770	5,462
69 University of Delaware	37,716	5,454
70 SUNY at Stony Brook	96,641	5,302
Total, 1st 70 institutions	8,622,326	1,154,630
71 NM Inst Mining & Tech	8,652	5,226
72 Wake Forest University	65,585	5,165
73 Kansas State University	31,185	5,062
74 New York Medical College	17,975	4,931
75 George Mason University	20,669	4,915
76 Brown University	49,943	4,863
77 Washington State U	48,441	4,838
78 University of Georgia	62,678	4,708
79 University of Dayton	31,717	4,677
80 University of Kansas	68,950	4,595
Total, 1st 80 institutions	9,028,121	1,203,610

See explanatory information and SOURCE at end of table.

**Table A-9. Total amount of Federal R&D expenditures received as a subrecipient by universities and colleges,
ranked by amount received:
fiscal year 2000**

[Dollars in thousands]

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Institutions ranked by total amount of R&D Federal expenditures received ¹	Federal R&D expenditures	Federal R&D expenditures received as a subrecipient
81 Thomas Jefferson U	67,448	4,579
82 U of Nebraska at Lincoln	37,831	4,567
83 U MA Amherst	44,697	4,511
84 Desert Research Institute	19,923	4,436
85 Tufts University	64,677	4,283
86 Michigan Tech University	16,650	4,155
87 Catholic U of America	7,680	4,073
88 Louisiana State U System	89,007	4,073
89 U TX Med Br at Galveston	61,357	4,019
90 Rush University	32,573	4,000
Total, 1st 90 institutions	9,469,964	1,246,306
91 U Med & Dent of NJ	75,318	3,954
92 Yeshiva University	101,631	3,904
93 Oregon Health Sciences U	109,165	3,897
94 U of Missouri Rolla	9,804	3,851
95 Temple University	38,213	3,665
96 Dartmouth College	56,369	3,635
97 Jackson State University	10,690	3,513
98 Wayne State University	64,320	3,502
99 Old Dominion University	14,908	3,399
100 U of Nevada Las Vegas	13,815	3,288
Total, 1st 100 institutions	9,964,197	1,282,914
Total, all other sampled institutions	7,529,276	167,356

¹ Only the top 100 institutions that reported the largest amount of R&D expenditures received as a subrecipient are shown on this table.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

SECTION B.
DETAILED STATISTICAL TABLES

Note

To obtain accurate historical data, use only the latest detailed statistical tables for FY 2000 and not data published earlier. Institutions revise prior-years' data when important changes occur in reporting practices and program classifications, and only the latest tables incorporate such changes.

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UNIVERSITY-ADMINISTERED FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS

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**Table B-1. R&D expenditures at universities and colleges,
by source of funds: fiscal years 1953-2000**

[Dollars in millions]

Fiscal year	Total	Source of funds				
		Federal Government	State and local government	Industry	Institutional funds	All other sources
1953	255	138	37	19	35	26
1954	290	160	42	22	38	28
1955	312	169	47	25	41	30
1956	372	213	53	29	43	34
1957	410	229	60	34	49	38
1958	456	254	68	39	53	42
1959	526	306	76	39	58	47
1960	646	405	85	40	64	52
1961	763	500	95	40	70	58
1962	904	613	106	40	79	66
1963	1,081	760	118	41	89	73
1964	1,275	917	132	40	103	83
1965	1,474	1,073	143	41	124	93
1966	1,715	1,261	156	42	148	108
1967	1,921	1,409	164	48	181	119
1968	2,149	1,572	172	55	218	132
1969	2,225	1,600	197	60	223	145
1970	2,335	1,647	219	61	243	165
1971	2,500	1,724	255	70	274	177
1972	2,630	1,795	269	74	305	187
1973	2,884	1,985	295	84	318	202
1974	3,022	2,032	308	95	368	219
1975	3,409	2,288	332	113	417	259
1976	3,729	2,512	364	123	446	285
1977	4,067	2,726	374	139	514	314
1978 ¹	4,625	3,059	414	170	623	359
1979	5,366	3,598	472	193	735	368
1980	6,063	4,098	491	236	835	403
1981	6,847	4,571	546	291	1,004	435
1982	7,324	4,768	616	337	1,111	491
1983	7,882	4,989	626	389	1,302	576
1984	8,620	5,431	690	475	1,411	613
1985	9,687	6,064	752	560	1,617	694
1986	10,928	6,712	915	700	1,869	732
1987	12,153	7,343	1,023	790	2,168	828
1988	13,463	8,193	1,106	872	2,356	935
1989	14,977	8,991	1,224	994	2,698	1,071
1990	16,286	9,638	1,324	1,127	3,006	1,191
1991	17,585	10,234	1,474	1,204	3,367	1,307
1992	18,818	11,092	1,491	1,279	3,547	1,409
1993	19,951	11,956	1,559	1,360	3,589	1,486
1994	21,022	12,646	1,554	1,422	3,827	1,574
1995	22,165	13,328	1,689	1,489	4,046	1,613
1996	23,039	13,835	1,811	1,605	4,169	1,618
1997	24,362	14,309	1,909	1,737	4,697	1,711
1998	25,846	15,144	1,944	1,888	5,001	1,869
1999	27,529	16,070	2,024	2,036	5,400	1,999
2000	30,062	17,493	2,204	2,178	5,924	2,262

¹ Fiscal year 1978 data are estimated based on data collected from doctorate-granting institutions only.

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-2. R&D expenditures at universities and colleges,
by character of work: fiscal years 1953-2000**

[Dollars in millions]

Fiscal year	Total	Character of work			
		Basic research		Applied research and development	
		Amount	Percent of total	Amount	Percent of total
1953	255	110	43.1	145	56.9
1954	290	136	46.9	154	53.1
1955	312	159	51.0	153	49.0
1956	372	200	53.8	172	46.2
1957	410	240	58.5	170	41.5
1958	456	281	61.6	175	38.4
1959	526	343	65.2	183	34.8
1960	646	433	67.0	213	33.0
1961	763	536	70.2	227	29.8
1962	904	659	72.9	245	27.1
1963	1,081	814	75.3	267	24.7
1964	1,275	1,003	78.7	272	21.3
1965	1,474	1,138	77.2	336	22.8
1966	1,715	1,303	76.0	412	24.0
1967	1,921	1,457	75.8	464	24.2
1968	2,149	1,650	76.8	499	23.2
1969	2,225	1,711	76.9	514	23.1
1970	2,335	1,796	76.9	539	23.1
1971	2,500	1,914	76.6	586	23.4
1972	2,630	2,022	76.9	608	23.1
1973	2,884	2,053	71.2	831	28.8
1974	3,022	2,153	71.2	869	28.8
1975	3,409	2,410	70.7	999	29.3
1976	3,729	2,549	68.4	1,180	31.6
1977	4,067	2,800	68.8	1,267	31.2
1978 ¹	4,625	--	--	--	--
1979	5,366	3,619	67.4	1,747	32.6
1980	6,063	4,036	66.6	2,026	33.4
1981	6,847	4,594	67.1	2,253	32.9
1982	7,324	4,879	66.6	2,445	33.4
1983	7,882	5,303	67.3	2,579	32.7
1984	8,620	5,733	66.5	2,887	33.5
1985	9,687	6,556	67.7	3,131	32.3
1986	10,928	7,492	68.6	3,435	31.4
1987	12,153	8,393	69.1	3,760	30.9
1988	13,463	8,894	66.1	4,569	33.9
1989	14,977	9,792	65.4	5,184	34.6
1990	16,286	10,643	65.4	5,643	34.6
1991	17,585	11,606	66.0	5,979	34.0
1992	18,818	12,516	66.5	6,302	33.5
1993	19,951	13,303	66.7	6,647	33.3
1994	21,022	13,982	66.5	7,040	33.5
1995	22,165	14,804	66.8	7,360	33.2
1996	23,039	15,473	67.2	7,566	32.8
1997	24,362	16,593	68.1	7,769	31.9
1998	25,846	17,445	67.5	8,401	32.5
1999	27,529	18,931	68.8	8,598	31.2
2000	30,062	20,791	69.2	9,271	30.8

¹ Separate data for basic research and applied research and development were not collected for fiscal year 1978.

KEY: -- = not available

NOTES: R&D expenditures by character of work are based on estimates of basic research provided by universities and colleges.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-2A. Federally financed R&D expenditures at universities and colleges, by character of work:
fiscal years 1953-2000**

[Dollars in millions]

Fiscal year	Total	Character of work			
		Basic research		Applied research and development	
		Amount	Percent of total	Amount	Percent of total
1953	138	--	--	--	--
1954	160	--	--	--	--
1955	169	--	--	--	--
1956	213	--	--	--	--
1957	229	--	--	--	--
1958	254	--	--	--	--
1959	306	--	--	--	--
1960	405	--	--	--	--
1961	500	--	--	--	--
1962	613	--	--	--	--
1963	760	--	--	--	--
1964	917	--	--	--	--
1965	1,073	--	--	--	--
1966	1,261	--	--	--	--
1967	1,409	--	--	--	--
1968	1,572	--	--	--	--
1969	1,600	--	--	--	--
1970	1,647	--	--	--	--
1971	1,724	--	--	--	--
1972	1,795	1,420	79.1	375	20.9
1973	1,985	1,454	73.2	531	26.8
1974	2,032	1,523	75.0	509	25.0
1975	2,288	1,695	74.1	593	25.9
1976	2,512	1,841	73.3	671	26.7
1977	2,726	2,007	73.6	719	26.4
1978 ¹	3,059	--	--	--	--
1979	3,598	2,577	71.6	1,022	28.4
1980	4,098	2,861	69.8	1,237	30.2
1981	4,571	3,260	71.3	1,311	28.7
1982	4,768	3,402	71.3	1,367	28.7
1983	4,989	3,547	71.1	1,442	28.9
1984	5,431	3,830	70.5	1,601	29.5
1985	6,064	4,343	71.6	1,722	28.4
1986	6,712	4,868	72.5	1,844	27.5
1987	7,343	5,375	73.2	1,968	26.8
1988	8,193	5,678	69.3	2,515	30.7
1989	8,991	6,195	68.9	2,796	31.1
1990	9,638	6,648	69.0	2,989	31.0
1991	10,234	7,127	69.6	3,107	30.4
1992	11,092	7,718	69.6	3,375	30.4
1993	11,956	8,398	70.2	3,559	29.8
1994	12,646	8,875	70.2	3,771	29.8
1995	13,328	9,395	70.5	3,933	29.5
1996	13,835	9,863	71.3	3,972	28.7
1997	14,309	10,310	72.1	3,999	27.9
1998	15,144	10,915	72.1	4,229	27.9
1999	16,070	11,865	73.8	4,205	26.2
2000	17,493	12,930	73.9	4,563	26.1

¹ Separate data for basic research and applied research and development were not collected for fiscal year 1978.

KEY: -- = not available

NOTES: R&D expenditures by character of work are based on estimates of basic research provided by universities and colleges.

Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-3. R&D expenditures at universities and colleges, by source of funds and science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	19,950,563	21,022,253	22,164,533	23,038,788	24,361,885	25,845,936	27,529,206	30,062,371
Source of funds								
Federal Government	11,956,290	12,645,720	13,327,508	13,835,232	14,308,570	15,143,938	16,069,908	17,493,473
State and local government	1,558,686	1,553,783	1,688,926	1,810,726	1,908,899	1,943,557	2,024,446	2,204,263
Industry	1,360,357	1,422,170	1,488,895	1,605,258	1,736,668	1,888,171	2,036,037	2,178,252
Institutional funds	3,589,059	3,826,597	4,046,461	4,169,345	4,696,531	5,000,926	5,400,038	5,924,491
All other sources	1,486,171	1,573,983	1,612,743	1,618,227	1,711,217	1,869,344	1,998,777	2,261,892
Field								
Engineering	3,155,737	3,354,969	3,515,040	3,707,054	3,838,747	4,068,829	4,261,387	4,550,315
Aeronautical and astronautical	212,601	217,376	241,069	232,942	246,966	249,684	260,347	252,276
Bioengineering/bio- medical	--	--	--	--	76,791	101,957	136,852	172,023
Chemical	273,632	278,687	297,060	317,186	316,667	327,074	348,986	374,310
Civil	371,417	402,837	430,781	454,629	471,802	494,823	529,533	595,969
Electrical	698,129	744,822	818,608	887,715	941,920	1,042,288	1,017,024	1,112,799
Mechanical	482,874	502,244	520,646	519,107	517,587	567,751	626,073	631,910
Metallurgical and materials	298,923	310,064	329,864	349,401	388,821	391,388	384,267	398,995
Other, n.e.c.	818,161	898,939	877,012	946,074	878,193	893,864	958,305	1,012,033
All sciences	16,794,826	17,667,284	18,649,493	19,331,734	20,523,138	21,777,107	23,267,819	25,512,056
Physical sciences	2,130,401	2,176,805	2,255,209	2,256,866	2,369,908	2,481,658	2,603,943	2,705,907
Astronomy	258,520	267,183	303,572	275,754	287,336	302,308	389,444	390,820
Chemistry	740,317	759,425	771,027	801,302	820,120	875,506	918,197	958,942
Physics	940,495	956,868	989,157	987,210	1,058,208	1,078,127	1,143,826	1,198,725
Other, n.e.c.	191,069	193,329	191,453	192,600	204,244	225,717	152,476	157,420
Environmental sciences	1,318,891	1,396,039	1,433,034	1,488,191	1,531,979	1,623,600	1,691,011	1,768,760
Atmospheric	210,403	203,205	208,084	224,459	245,499	269,167	288,142	288,617
Earth sciences	416,591	454,853	456,283	445,478	449,004	512,896	544,751	566,414
Oceanography	458,086	455,160	473,344	533,400	536,630	545,585	604,040	631,532
Other, n.e.c.	233,811	282,821	295,323	284,854	300,846	295,952	254,078	282,197
Mathematical sciences	272,248	281,737	278,595	288,160	289,342	310,199	313,111	340,683
Computer sciences	607,679	645,956	682,074	689,807	709,238	746,138	860,705	878,416
Life sciences	10,851,322	11,466,076	12,185,668	12,713,003	13,587,569	14,592,547	15,631,696	17,479,853
Agricultural sciences	1,558,111	1,661,335	1,814,246	1,910,064	1,966,003	1,995,484	2,036,295	2,178,645
Biological sciences	3,536,448	3,708,945	3,833,691	3,909,191	4,180,017	4,580,587	5,033,339	5,609,198
Medical sciences	5,323,768	5,638,536	6,069,977	6,390,735	6,907,794	7,471,677	8,008,783	9,002,562
Other, n.e.c.	432,995	457,260	467,754	503,013	533,755	544,799	553,279	689,448
Psychology	349,709	358,208	370,427	381,432	396,053	444,163	464,314	516,365
Social sciences	896,287	953,764	1,018,894	1,096,582	1,125,250	1,131,131	1,253,512	1,295,905
Economics	231,247	243,040	250,307	271,396	260,679	261,004	266,250	254,927
Political science	151,085	160,527	173,005	179,755	175,449	175,500	201,492	227,175
Sociology	183,354	195,891	215,118	230,648	257,283	252,748	272,075	301,890
Other, n.e.c.	330,601	354,306	380,464	414,783	431,839	441,879	513,695	511,913
Other sciences, n.e.c.	368,289	388,699	425,592	417,693	513,799	447,671	449,527	526,167

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-4. Federally financed R&D expenditures at universities and colleges,
by science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	11,956,290	12,645,720	13,327,508	13,835,232	14,308,570	15,143,938	16,069,908	17,493,473
Engineering	1,857,974	1,993,364	2,101,658	2,232,190	2,255,827	2,353,658	2,439,180	2,562,937
Aeronautical and astronautical	159,839	165,385	183,653	171,164	183,266	170,689	182,925	176,037
Bioengineering/bio- medical	--	--	--	--	47,517	56,635	72,159	90,247
Chemical	142,815	150,495	161,116	173,768	165,854	169,272	178,837	194,694
Civil	154,325	163,739	185,891	197,733	200,346	197,073	216,322	232,130
Electrical	458,418	490,107	543,643	599,803	624,252	692,537	649,882	694,518
Mechanical	310,007	327,760	339,620	334,903	322,449	350,725	387,850	382,391
Metallurgical and materials	150,438	155,563	175,505	190,452	222,452	221,684	217,316	225,930
Other, n.e.c.	482,132	540,315	512,230	564,367	489,691	495,043	533,889	566,990
All sciences	10,098,316	10,652,356	11,225,850	11,603,042	12,052,743	12,790,280	13,630,728	14,930,536
Physical sciences	1,512,719	1,562,755	1,637,060	1,629,535	1,682,429	1,760,874	1,860,139	1,912,089
Astronomy	165,031	180,929	206,925	182,296	182,910	187,859	277,225	281,723
Chemistry	505,257	517,662	532,964	553,355	551,381	586,612	615,896	628,716
Physics	708,167	727,293	761,639	757,124	803,085	817,724	862,347	896,080
Other, n.e.c.	134,264	136,871	135,532	136,760	145,053	168,679	104,671	105,570
Environmental sciences	870,282	943,510	961,187	1,005,793	1,011,715	1,075,796	1,101,125	1,131,279
Atmospheric	160,633	161,315	163,649	175,948	186,613	209,537	222,504	222,891
Earth sciences	243,529	270,767	273,124	267,300	268,439	311,579	320,667	330,052
Oceanography	329,612	323,100	331,486	371,361	355,438	362,129	405,183	421,291
Other, n.e.c.	136,508	188,328	192,928	191,184	201,225	192,551	152,771	157,045
Mathematical sciences	203,122	205,177	204,752	208,010	202,009	214,081	209,158	228,694
Computer sciences	423,319	461,756	483,318	501,460	506,213	513,129	582,284	581,549
Life sciences	6,387,041	6,736,502	7,112,043	7,403,492	7,761,199	8,330,474	8,942,577	10,059,880
Agricultural sciences	450,030	493,131	531,437	559,571	548,291	533,362	545,681	578,511
Biological sciences	2,310,849	2,436,941	2,488,609	2,528,195	2,682,421	2,935,471	3,214,457	3,646,207
Medical sciences	3,369,501	3,537,413	3,826,902	4,023,857	4,226,893	4,559,251	4,861,219	5,443,674
Other, n.e.c.	256,661	269,017	265,095	291,869	303,594	302,390	321,220	391,488
Psychology	234,389	240,531	248,771	258,378	271,343	298,606	309,318	350,024
Social sciences	338,321	358,366	387,839	422,917	408,768	425,432	472,009	490,137
Economics	77,304	76,271	80,020	90,645	89,784	92,222	89,975	89,046
Political science	42,828	49,844	59,648	62,247	51,766	53,112	54,067	61,892
Sociology	91,108	96,190	104,412	118,951	120,562	118,930	122,105	136,991
Other, n.e.c.	127,081	136,061	143,759	151,074	146,656	161,168	205,862	202,208
Other sciences, n.e.c.	129,123	143,759	190,880	173,457	209,067	171,888	154,118	176,884

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-5. Non-Federal R&D expenditures at universities and colleges, by source of funds and science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	7,994,273	8,376,533	8,837,025	9,203,556	10,053,315	10,701,998	11,459,298	12,568,898
Source of funds								
State and local government	1,558,686	1,553,783	1,688,926	1,810,726	1,908,899	1,943,557	2,024,446	2,204,263
Industry	1,360,357	1,422,170	1,488,895	1,605,258	1,736,668	1,888,171	2,036,037	2,178,252
Institutional funds	3,589,059	3,826,597	4,046,461	4,169,345	4,696,531	5,000,926	5,400,038	5,924,491
All other sources	1,486,171	1,573,983	1,612,743	1,618,227	1,711,217	1,869,344	1,998,777	2,261,892
Field								
Engineering	1,297,763	1,361,605	1,413,382	1,474,864	1,582,920	1,715,171	1,822,207	1,987,378
Aeronautical and astronautical	52,762	51,991	57,416	61,778	63,700	78,995	77,422	76,239
Bioengineering/bio- medical	--	--	--	--	29,274	45,322	64,693	81,776
Chemical	130,817	128,192	135,944	143,418	150,813	157,802	170,149	179,616
Civil	217,092	239,098	244,890	256,896	271,456	297,750	313,211	363,839
Electrical	239,711	254,715	274,965	287,912	317,668	349,751	367,142	418,281
Mechanical	172,867	174,484	181,026	184,204	195,138	217,026	238,223	249,519
Metallurgical and materials	148,485	154,501	154,359	158,949	166,369	169,704	166,951	173,065
Other, n.e.c.	336,029	358,624	364,782	381,707	388,502	398,821	424,416	445,043
All sciences	6,696,510	7,014,928	7,423,643	7,728,692	8,470,395	8,986,827	9,637,091	10,581,520
Physical sciences	617,682	614,050	618,149	627,331	687,479	720,784	743,804	793,818
Astronomy	93,489	86,254	96,647	93,458	104,426	114,449	112,219	109,097
Chemistry	235,060	241,763	238,063	247,947	268,739	288,894	302,301	330,226
Physics	232,328	229,575	227,518	230,086	255,123	260,403	281,479	302,645
Other, n.e.c.	56,805	56,458	55,921	55,840	59,191	57,038	47,805	51,850
Environmental sciences	448,609	452,529	471,847	482,398	520,264	547,804	589,886	637,481
Atmospheric	49,770	41,890	44,435	48,511	58,886	59,630	65,638	65,726
Earth sciences	173,062	184,086	183,159	178,178	180,565	201,317	224,084	236,362
Oceanography	128,474	132,060	141,858	162,039	181,192	183,456	198,857	210,241
Other, n.e.c.	97,303	94,493	102,395	93,670	99,621	103,401	101,307	125,152
Mathematical sciences	69,126	76,560	73,843	80,150	87,333	96,118	103,953	111,989
Computer sciences	184,360	184,200	198,756	188,347	203,025	233,009	278,421	296,867
Life sciences	4,464,281	4,729,574	5,073,625	5,309,511	5,826,370	6,262,073	6,689,119	7,419,973
Agricultural sciences	1,108,081	1,168,204	1,282,809	1,350,493	1,417,712	1,462,122	1,490,614	1,600,134
Biological sciences	1,225,599	1,272,004	1,345,082	1,380,996	1,497,596	1,645,116	1,818,882	1,962,991
Medical sciences	1,954,267	2,101,123	2,243,075	2,366,878	2,680,901	2,912,426	3,147,564	3,558,888
Other, n.e.c.	176,334	188,243	202,659	211,144	230,161	242,409	232,059	297,960
Psychology	115,320	117,677	121,656	123,054	124,710	145,557	154,996	166,341
Social sciences	557,966	595,398	631,055	673,665	716,482	705,699	781,503	805,768
Economics	153,943	166,769	170,287	180,751	170,895	168,782	176,275	165,881
Political science	108,257	110,683	113,357	117,508	123,683	122,388	147,425	165,283
Sociology	92,246	99,701	110,706	111,697	136,721	133,818	149,970	164,899
Other, n.e.c.	203,520	218,245	236,705	263,709	285,183	280,711	307,833	309,705
Other sciences, n.e.c.	239,166	244,940	234,712	244,236	304,732	275,783	295,409	349,283

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-6. R&D expenditures at doctorate-granting institutions, by source of funds and science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	19,615,731	20,673,195	21,792,051	22,644,082	23,928,487	25,381,772	27,069,321	29,596,635
Source of funds								
Federal Government	11,748,767	12,432,161	13,099,682	13,593,138	14,039,577	14,859,456	15,800,727	17,199,786
State and local government	1,527,053	1,513,562	1,645,164	1,766,856	1,860,419	1,891,449	1,952,958	2,159,563
Industry	1,332,045	1,392,810	1,456,777	1,571,837	1,702,749	1,856,072	2,003,667	2,145,038
Institutional funds	3,540,677	3,780,184	3,997,079	4,116,703	4,639,854	4,946,184	5,349,213	5,870,744
All other sources	1,467,189	1,554,478	1,593,349	1,595,548	1,685,888	1,828,611	1,962,756	2,221,504
Field								
Engineering	3,103,783	3,298,073	3,453,216	3,641,196	3,766,131	3,995,246	4,189,370	4,475,944
Aeronautical and astronautical	207,053	211,062	235,378	228,156	242,294	245,565	250,497	240,677
Bioengineering/bio- medical	--	--	--	--	76,463	101,655	134,984	169,621
Chemical	272,060	277,152	294,895	314,947	312,984	324,012	347,285	372,132
Civil	360,628	390,570	416,524	440,989	457,609	481,639	520,466	587,120
Electrical	686,192	732,141	805,293	870,894	926,527	1,027,680	1,004,842	1,098,410
Mechanical	473,169	493,012	508,532	505,750	497,504	543,627	609,582	617,379
Metallurgical and materials	297,658	308,564	328,258	347,647	386,901	389,291	382,015	396,412
Other, n.e.c.	807,023	885,572	864,336	932,813	865,849	881,777	939,699	994,193
All sciences	16,511,948	17,375,122	18,338,835	19,002,886	20,162,356	21,386,526	22,879,951	25,120,691
Physical sciences	2,068,533	2,110,111	2,185,717	2,180,546	2,288,251	2,391,059	2,524,658	2,629,914
Astronomy	257,295	265,884	301,679	274,306	285,808	300,121	387,285	389,240
Chemistry	707,370	724,948	736,483	762,617	779,409	829,328	873,160	920,968
Physics	915,084	928,207	958,347	953,189	1,021,057	1,038,106	1,114,866	1,164,424
Other, n.e.c.	188,784	191,072	189,208	190,434	201,977	223,504	149,347	155,282
Environmental sciences	1,274,945	1,351,708	1,388,560	1,441,095	1,485,797	1,576,907	1,638,368	1,718,179
Atmospheric	206,215	199,563	204,722	221,271	242,637	265,284	284,790	285,841
Earth sciences	403,353	440,768	441,761	428,380	430,950	491,515	521,692	544,067
Oceanography	441,229	437,789	455,537	516,337	519,292	528,958	583,087	612,593
Other, n.e.c.	224,148	273,588	286,540	275,107	292,918	291,150	248,799	275,678
Mathematical sciences	259,192	271,641	266,976	276,102	277,105	298,538	300,960	325,720
Computer sciences	597,016	634,790	670,145	674,443	690,936	726,518	831,047	850,308
Life sciences	10,750,640	11,355,611	12,070,720	12,591,934	13,446,352	14,433,890	15,485,185	17,331,692
Agricultural sciences	1,522,235	1,620,812	1,771,360	1,867,092	1,911,337	1,932,265	1,975,916	2,121,246
Biological sciences	3,484,926	3,650,905	3,773,589	3,844,371	4,109,852	4,506,152	4,968,542	5,542,352
Medical sciences	5,316,035	5,631,792	6,062,944	6,382,289	6,895,633	7,456,048	7,995,398	8,990,581
Other, n.e.c.	427,444	452,102	462,827	498,182	529,530	539,425	545,329	677,513
Psychology	333,684	342,831	352,496	364,025	378,043	426,241	449,646	501,039
Social sciences	872,655	930,677	992,552	1,068,514	1,092,359	1,099,112	1,219,919	1,264,418
Economics	225,964	237,886	244,844	267,533	256,462	257,934	262,186	250,712
Political science	148,673	158,351	170,661	176,944	172,313	172,604	198,301	224,438
Sociology	176,993	189,563	207,540	221,687	248,883	242,983	259,406	289,726
Other, n.e.c.	321,025	344,877	369,507	402,350	414,701	425,591	500,026	499,542
Other sciences, n.e.c.	355,283	377,753	411,669	406,227	503,513	434,261	430,168	499,421

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-7. Federally financed R&D expenditures at doctorate-granting institutions,
by science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	11,748,767	12,432,161	13,099,682	13,593,138	14,039,577	14,859,456	15,800,727	17,199,786
Engineering	1,830,261	1,962,634	2,066,891	2,192,411	2,211,259	2,308,440	2,399,182	2,520,496
Aeronautical and astronautical	154,565	159,430	178,293	166,833	179,153	167,026	173,397	164,704
Bioengineering/bio- medical	--	--	--	--	47,189	56,369	71,797	89,471
Chemical	141,915	149,581	159,778	172,236	163,076	167,181	177,961	193,524
Civil	150,217	159,650	180,534	191,553	193,742	190,484	213,364	229,312
Electrical	451,011	481,641	534,248	587,559	613,283	682,480	641,155	683,831
Mechanical	304,557	322,562	332,773	326,808	308,752	335,381	379,246	374,915
Metallurgical and materials	149,675	154,685	174,545	189,379	221,276	220,308	215,577	224,123
Other, n.e.c.	478,321	535,085	506,720	558,043	484,788	489,211	526,685	560,616
All sciences	9,918,506	10,469,527	11,032,791	11,400,727	11,828,318	12,551,016	13,401,545	14,679,290
Physical sciences	1,471,578	1,519,841	1,590,876	1,580,198	1,630,704	1,701,415	1,806,052	1,858,785
Astronomy	164,222	180,079	205,633	181,459	181,925	186,397	275,839	280,552
Chemistry	482,758	495,277	509,364	527,180	524,178	554,192	584,820	603,626
Physics	691,531	708,966	741,657	735,935	780,604	793,442	842,258	869,943
Other, n.e.c.	133,067	135,519	134,222	135,624	143,997	167,384	103,135	104,664
Environmental sciences	845,038	918,673	936,909	980,583	986,975	1,051,424	1,075,035	1,103,403
Atmospheric	157,249	158,652	161,006	173,357	184,400	206,310	219,782	220,528
Earth sciences	236,914	263,632	266,076	258,914	258,986	301,169	309,176	318,373
Oceanography	319,684	313,331	321,535	362,108	346,407	353,823	395,545	411,157
Other, n.e.c.	131,191	183,058	188,292	186,204	197,182	190,122	150,532	153,345
Mathematical sciences	194,878	198,092	197,328	200,440	194,704	207,050	201,399	218,831
Computer sciences	416,272	454,329	476,186	491,589	492,676	500,128	563,109	560,859
Life sciences	6,317,343	6,662,417	7,034,906	7,322,283	7,664,229	8,226,606	8,853,192	9,956,617
Agricultural sciences	423,570	461,707	499,618	527,904	507,194	491,812	511,338	538,709
Biological sciences	2,277,035	2,402,623	2,450,640	2,487,331	2,638,015	2,886,637	3,171,862	3,599,648
Medical sciences	3,364,587	3,532,740	3,822,498	4,018,126	4,217,840	4,549,197	4,853,538	5,436,516
Other, n.e.c.	252,151	265,347	262,150	288,922	301,180	298,960	316,454	381,744
Psychology	222,025	229,378	236,220	247,179	260,601	289,025	299,789	338,186
Social sciences	328,487	348,032	376,376	411,057	394,576	411,163	457,818	477,264
Economics	73,760	73,006	76,514	88,640	87,520	90,412	88,224	87,160
Political science	42,322	49,298	59,182	61,494	51,005	52,124	53,171	61,046
Sociology	87,903	93,174	100,617	114,042	116,117	113,445	116,508	132,236
Other, n.e.c.	124,502	132,554	140,063	146,881	139,934	155,182	199,915	196,822
Other sciences, n.e.c.	122,885	138,765	183,990	167,398	203,853	164,205	145,151	165,345

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-8. Non-Federal R&D expenditures at doctorate-granting institutions, by source of funds and science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	7,866,964	8,241,034	8,692,369	9,050,944	9,888,910	10,522,316	11,268,594	12,396,849
Source of funds								
State and local government	1,527,053	1,513,562	1,645,164	1,766,856	1,860,419	1,891,449	1,952,958	2,159,563
Industry	1,332,045	1,392,810	1,456,777	1,571,837	1,702,749	1,856,072	2,003,667	2,145,038
Institutional funds	3,540,677	3,780,184	3,997,079	4,116,703	4,639,854	4,946,184	5,349,213	5,870,744
All other sources	1,467,189	1,554,478	1,593,349	1,595,548	1,685,888	1,828,611	1,962,756	2,221,504
Field								
Engineering	1,273,522	1,335,439	1,386,325	1,448,785	1,554,872	1,686,806	1,790,188	1,955,448
Aeronautical and astronautical	52,488	51,632	57,085	61,323	63,141	78,539	77,100	75,973
Bioengineering/bio- medical	--	--	--	--	29,274	45,286	63,187	80,150
Chemical	130,145	127,571	135,117	142,711	149,908	156,831	169,324	178,608
Civil	210,411	230,920	235,990	249,436	263,867	291,155	307,102	357,808
Electrical	235,181	250,500	271,045	283,335	313,244	345,200	363,687	414,579
Mechanical	168,612	170,450	175,759	178,942	188,752	208,246	230,336	242,464
Metallurgical and materials	147,983	153,879	153,713	158,268	165,625	168,983	166,438	172,289
Other, n.e.c.	328,702	350,487	357,616	374,770	381,061	392,566	413,014	433,577
All sciences	6,593,442	6,905,595	7,306,044	7,602,159	8,334,038	8,835,510	9,478,406	10,441,401
Physical sciences	596,955	590,270	594,841	600,348	657,547	689,644	718,606	771,129
Astronomy	93,073	85,805	96,046	92,847	103,883	113,724	111,446	108,688
Chemistry	224,612	229,671	227,119	235,437	255,231	275,136	288,340	317,342
Physics	223,553	219,241	216,690	217,254	240,453	244,664	272,608	294,481
Other, n.e.c.	55,717	55,553	54,986	54,810	57,980	56,120	46,212	50,618
Environmental sciences	429,907	433,035	451,651	460,512	498,822	525,483	563,333	614,776
Atmospheric	48,966	40,911	43,716	47,914	58,237	58,974	65,008	65,313
Earth sciences	166,439	177,136	175,685	169,466	171,964	190,346	212,516	225,694
Oceanography	121,545	124,458	134,002	154,229	172,885	175,135	187,542	201,436
Other, n.e.c.	92,957	90,530	98,248	88,903	95,736	101,028	98,267	122,333
Mathematical sciences	64,314	73,549	69,648	75,662	82,401	91,488	99,561	106,889
Computer sciences	180,744	180,461	193,959	182,854	198,260	226,390	267,938	289,449
Life sciences	4,433,297	4,693,194	5,035,814	5,269,651	5,782,123	6,207,284	6,631,993	7,375,075
Agricultural sciences	1,098,665	1,159,105	1,271,742	1,339,188	1,404,143	1,440,453	1,464,578	1,582,537
Biological sciences	1,207,891	1,248,282	1,322,949	1,357,040	1,471,837	1,619,515	1,796,680	1,942,704
Medical sciences	1,951,448	2,099,052	2,240,446	2,364,163	2,677,793	2,906,851	3,141,860	3,554,065
Other, n.e.c.	175,293	186,755	200,677	209,260	228,350	240,465	228,875	295,769
Psychology	111,659	113,453	116,276	116,846	117,442	137,216	149,857	162,853
Social sciences	544,168	582,645	616,176	657,457	697,783	687,949	762,101	787,154
Economics	152,204	164,880	168,330	178,893	168,942	167,522	173,962	163,552
Political science	106,351	109,053	111,479	115,450	121,308	120,480	145,130	163,392
Sociology	89,090	96,389	106,923	107,645	132,766	129,538	142,898	157,490
Other, n.e.c.	196,523	212,323	229,444	255,469	274,767	270,409	300,111	302,720
Other sciences, n.e.c.	232,398	238,988	227,679	238,829	299,660	270,056	285,017	334,076

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-9. R&D expenditures at public universities and colleges, by source of funds and science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	13,376,515	14,111,945	14,949,308	15,585,059	16,421,672	17,475,394	18,665,437	20,517,436
Source of funds								
Federal Government	7,171,861	7,635,809	8,099,686	8,464,607	8,568,959	9,070,076	9,690,025	10,637,880
State and local government	1,416,215	1,404,414	1,511,987	1,649,554	1,741,397	1,772,885	1,847,522	2,009,336
Industry	894,623	946,642	1,003,232	1,076,445	1,175,777	1,279,637	1,343,096	1,446,530
Institutional funds	2,981,750	3,190,253	3,386,673	3,418,131	3,887,782	4,214,706	4,565,011	4,992,452
All other sources	912,066	934,827	947,730	976,322	1,047,757	1,138,090	1,219,783	1,431,238
Field								
Engineering	2,112,631	2,287,425	2,441,092	2,587,903	2,686,594	2,866,185	3,047,581	3,288,623
Aeronautical and astronautical	125,689	124,175	143,370	138,676	154,511	155,002	188,504	178,992
Bioengineering/bio- medical	--	--	--	--	52,227	62,102	79,358	104,839
Chemical	185,635	190,382	205,705	226,815	237,029	245,187	254,712	271,248
Civil	304,291	334,375	361,512	381,669	399,474	425,808	447,925	508,776
Electrical	418,862	466,202	539,545	584,814	626,066	714,137	713,249	785,595
Mechanical	293,262	304,834	346,160	349,347	332,167	367,994	415,584	418,793
Metallurgical and materials	220,548	238,697	253,112	259,644	289,402	281,711	277,966	295,489
Other, n.e.c.	564,344	628,760	591,688	646,938	595,718	614,244	670,283	724,891
All sciences	11,263,884	11,824,520	12,508,216	12,997,156	13,735,078	14,609,209	15,617,856	17,228,813
Physical sciences	1,379,854	1,412,917	1,465,967	1,445,491	1,501,553	1,586,002	1,676,882	1,798,329
Astronomy	174,596	185,180	213,597	186,867	187,864	206,471	235,829	248,777
Chemistry	499,319	513,687	521,766	541,653	557,704	587,863	623,064	671,671
Physics	572,493	575,566	595,463	592,068	628,177	647,311	749,967	801,208
Other, n.e.c.	133,446	138,484	135,141	124,903	127,808	144,357	68,022	76,673
Environmental sciences	1,032,799	1,099,645	1,134,854	1,192,953	1,224,826	1,283,245	1,357,231	1,427,842
Atmospheric	175,403	164,871	175,930	192,857	213,044	228,093	236,587	243,977
Earth sciences	314,765	344,243	343,191	330,793	334,121	380,265	421,018	451,110
Oceanography	373,065	401,603	423,185	483,712	487,285	490,118	512,711	541,990
Other, n.e.c.	169,566	188,928	192,548	185,591	190,376	184,769	186,915	199,765
Mathematical sciences	157,761	167,667	168,357	174,311	178,151	196,048	194,984	214,441
Computer sciences	294,248	324,760	340,394	336,126	349,567	398,511	488,865	526,404
Life sciences	7,229,979	7,587,427	8,069,822	8,431,884	8,982,994	9,637,673	10,273,129	11,498,850
Agricultural sciences	1,510,657	1,607,108	1,759,082	1,858,052	1,905,549	1,930,454	1,979,913	2,117,308
Biological sciences	2,239,324	2,339,703	2,410,939	2,458,934	2,621,428	2,888,549	3,198,710	3,580,774
Medical sciences	3,229,262	3,384,190	3,638,982	3,815,961	4,138,071	4,494,909	4,772,768	5,369,296
Other, n.e.c.	250,736	256,426	260,819	298,937	317,946	323,761	321,738	431,472
Psychology	242,902	254,223	268,745	280,550	298,512	333,000	344,571	381,218
Social sciences	663,755	706,210	763,865	840,125	854,071	873,120	973,491	998,757
Economics	187,140	198,182	207,391	225,566	206,725	207,979	217,314	205,616
Political science	87,963	96,691	108,153	113,292	110,871	109,446	123,561	139,302
Sociology	134,868	144,795	165,961	176,022	196,961	194,730	203,235	223,538
Other, n.e.c.	253,784	266,542	282,360	325,245	339,514	360,965	429,381	430,301
Other sciences, n.e.c.	262,586	271,671	296,212	295,716	345,404	301,610	308,703	382,972

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-10. Federally financed R&D expenditures at public universities and colleges,
by science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	7,171,861	7,635,809	8,099,686	8,464,607	8,568,959	9,070,076	9,690,025	10,637,880
Engineering	1,071,745	1,179,171	1,276,867	1,384,333	1,372,223	1,441,099	1,514,472	1,627,303
Aeronautical and astronautical	89,160	86,549	98,254	91,685	100,780	96,696	121,172	115,462
Bioengineering/bio- medical	--	--	--	--	29,111	26,487	29,489	41,104
Chemical	89,204	94,064	100,717	115,492	113,649	116,966	118,491	129,475
Civil	111,641	119,432	141,492	151,054	155,163	156,413	167,682	180,205
Electrical	240,680	270,740	322,068	362,282	377,072	433,068	414,836	452,618
Mechanical	160,935	171,191	199,220	205,358	178,943	192,150	222,666	217,700
Metallurgical and materials	99,688	110,252	123,473	126,253	148,398	146,216	140,088	151,208
Other, n.e.c.	280,437	326,943	291,643	332,209	269,107	273,103	300,048	339,531
All sciences	6,100,116	6,456,638	6,822,819	7,080,274	7,196,736	7,628,977	8,175,553	9,010,577
Physical sciences	892,730	921,475	966,587	946,303	945,926	1,003,171	1,054,544	1,137,958
Astronomy	99,237	113,935	133,460	108,318	98,439	110,041	133,551	148,886
Chemistry	319,926	328,502	341,291	351,451	349,937	361,556	381,908	410,192
Physics	390,135	391,230	406,550	404,563	416,550	429,461	506,675	543,889
Other, n.e.c.	83,432	87,808	85,286	81,971	81,000	102,113	32,410	34,991
Environmental sciences	630,137	691,579	717,080	763,616	752,784	787,409	823,169	852,540
Atmospheric	128,317	126,017	134,027	147,628	156,838	172,036	175,668	174,887
Earth sciences	160,455	182,166	182,537	174,008	171,763	200,266	221,193	242,984
Oceanography	252,144	275,333	289,000	330,690	313,339	313,748	324,433	340,097
Other, n.e.c.	89,221	108,063	111,516	111,290	110,844	101,359	101,875	94,572
Mathematical sciences	101,112	104,684	106,927	107,792	107,070	115,746	109,075	122,602
Computer sciences	167,536	193,350	207,642	209,522	209,729	230,319	284,815	305,224
Life sciences	3,810,879	4,018,718	4,240,338	4,441,224	4,562,606	4,873,025	5,228,970	5,855,905
Agricultural sciences	433,354	473,519	511,644	542,485	521,797	508,146	528,431	560,067
Biological sciences	1,326,971	1,400,219	1,423,866	1,460,946	1,531,214	1,672,731	1,850,059	2,131,924
Medical sciences	1,925,402	2,015,794	2,175,790	2,279,683	2,345,929	2,546,412	2,694,932	2,958,525
Other, n.e.c.	125,152	129,186	129,038	158,110	163,666	145,736	155,548	205,389
Psychology	158,308	166,280	176,818	188,039	198,532	215,842	219,537	247,827
Social sciences	243,621	252,469	273,831	307,233	294,422	310,665	355,338	365,028
Economics	66,231	64,104	65,373	72,657	64,854	65,782	68,341	68,416
Political science	22,126	23,973	29,587	31,904	27,413	28,444	29,600	31,062
Sociology	64,237	66,276	75,849	86,287	87,836	85,626	84,462	96,707
Other, n.e.c.	91,027	98,116	103,022	116,385	114,319	130,813	172,935	168,843
Other sciences, n.e.c.	95,793	108,083	133,596	116,545	125,667	92,800	100,105	123,493

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-11. Non-Federal R&D expenditures at public universities and colleges,
by source of funds and science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	6,204,654	6,476,136	6,849,622	7,120,452	7,852,713	8,405,318	8,975,412	9,879,556
Source of funds								
State and local government	1,416,215	1,404,414	1,511,987	1,649,554	1,741,397	1,772,885	1,847,522	2,009,336
Industry	894,623	946,642	1,003,232	1,076,445	1,175,777	1,279,637	1,343,096	1,446,530
Institutional funds	2,981,750	3,190,253	3,386,673	3,418,131	3,887,782	4,214,706	4,565,011	4,992,452
All other sources	912,066	934,827	947,730	976,322	1,047,757	1,138,090	1,219,783	1,431,238
Field								
Engineering	1,040,886	1,108,254	1,164,225	1,203,570	1,314,371	1,425,086	1,533,109	1,661,320
Aeronautical and astronautical	36,529	37,626	45,116	46,991	53,731	58,306	67,332	63,530
Bioengineering/bio- medical	--	--	--	--	23,116	35,615	49,869	63,735
Chemical	96,431	96,318	104,988	111,323	123,380	128,221	136,221	141,773
Civil	192,650	214,943	220,020	230,615	244,311	269,395	280,243	328,571
Electrical	178,182	195,462	217,477	222,532	248,994	281,069	298,413	332,977
Mechanical	132,327	133,643	146,940	143,989	153,224	175,844	192,918	201,093
Metallurgical and materials	120,860	128,445	129,639	133,391	141,004	135,495	137,878	144,281
Other, n.e.c.	283,907	301,817	300,045	314,729	326,611	341,141	370,235	385,360
All sciences	5,163,768	5,367,882	5,685,397	5,916,882	6,538,342	6,980,232	7,442,303	8,218,236
Physical sciences	487,124	491,442	499,380	499,188	555,627	582,831	622,338	660,371
Astronomy	75,359	71,245	80,137	78,549	89,425	96,430	102,278	99,891
Chemistry	179,393	185,185	180,475	190,202	207,767	226,307	241,156	261,479
Physics	182,358	184,336	188,913	187,505	211,627	217,850	243,292	257,319
Other, n.e.c.	50,014	50,676	49,855	42,932	46,808	42,244	35,612	41,682
Environmental sciences	402,662	408,066	417,774	429,337	472,042	495,836	534,062	575,302
Atmospheric	47,086	38,854	41,903	45,229	56,206	56,057	60,919	60,090
Earth sciences	154,310	162,077	160,654	156,785	162,358	179,999	199,825	208,126
Oceanography	120,921	126,270	134,185	153,022	173,946	176,370	188,278	201,893
Other, n.e.c.	80,345	80,865	81,032	74,301	79,532	83,410	85,040	105,193
Mathematical sciences	56,649	62,983	61,430	66,519	71,081	80,302	85,909	91,839
Computer sciences	126,712	131,410	132,752	126,604	139,838	168,192	204,050	221,180
Life sciences	3,419,100	3,568,709	3,829,484	3,990,660	4,420,388	4,764,648	5,044,159	5,642,945
Agricultural sciences	1,077,303	1,133,589	1,247,438	1,315,567	1,383,752	1,422,308	1,451,482	1,557,241
Biological sciences	912,353	939,484	987,073	997,988	1,090,214	1,215,818	1,348,651	1,448,850
Medical sciences	1,303,860	1,368,396	1,463,192	1,536,278	1,792,142	1,948,497	2,077,836	2,410,771
Other, n.e.c.	125,584	127,240	131,781	140,827	154,280	178,025	166,190	226,083
Psychology	84,594	87,943	91,927	92,511	99,980	117,158	125,034	133,391
Social sciences	420,134	453,741	490,034	532,892	559,649	562,455	618,153	633,729
Economics	120,909	134,078	142,018	152,909	141,871	142,197	148,973	137,200
Political science	65,837	72,718	78,566	81,388	83,458	81,002	93,961	108,240
Sociology	70,631	78,519	90,112	89,735	109,125	109,104	118,773	126,831
Other, n.e.c.	162,757	168,426	179,338	208,860	225,195	230,152	256,446	261,458
Other sciences, n.e.c.	166,793	163,588	162,616	179,171	219,737	208,810	208,598	259,479

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-12. R&D expenditures at private universities and colleges, by source of funds and science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	6,574,048	6,910,308	7,215,225	7,453,729	7,940,213	8,370,542	8,863,769	9,544,935
Source of funds								
Federal Government	4,784,429	5,009,911	5,227,822	5,370,625	5,739,611	6,073,862	6,379,883	6,855,593
State and local government	142,471	149,369	176,939	161,172	167,502	170,672	176,924	194,927
Industry	465,734	475,528	485,663	528,813	560,891	608,534	692,941	731,722
Institutional funds	607,309	636,344	659,788	751,214	808,749	786,220	835,027	932,039
All other sources	574,105	639,156	665,013	641,905	663,460	731,254	778,994	830,654
Field								
Engineering	1,043,106	1,067,544	1,073,948	1,119,151	1,152,153	1,202,644	1,213,806	1,261,692
Aeronautical and astronautical	86,912	93,201	97,699	94,266	92,455	94,682	71,843	73,284
Bioengineering/bio-medical	--	--	--	--	24,564	39,855	57,494	67,184
Chemical	87,997	88,305	91,355	90,371	79,638	81,887	94,274	103,062
Civil	67,126	68,462	69,269	72,960	72,328	69,015	81,608	87,193
Electrical	279,267	278,620	279,063	302,901	315,854	328,151	303,775	327,204
Mechanical	189,612	197,410	174,486	169,760	185,420	199,757	210,489	213,117
Metallurgical and materials	78,375	71,367	76,752	89,757	99,419	109,677	106,301	103,506
Other, n.e.c.	253,817	270,179	285,324	299,136	282,475	279,620	288,022	287,142
All sciences	5,530,942	5,842,764	6,141,277	6,334,578	6,788,060	7,167,898	7,649,963	8,283,243
Physical sciences	750,547	763,888	789,242	811,375	868,355	895,656	927,061	907,578
Astronomy	83,924	82,003	89,975	88,887	99,472	95,837	153,615	142,043
Chemistry	240,998	245,738	249,261	259,649	262,416	287,643	295,133	287,271
Physics	368,002	381,302	393,694	395,142	430,031	430,816	393,859	397,517
Other, n.e.c.	57,623	54,845	56,312	67,697	76,436	81,360	84,454	80,747
Environmental sciences	286,092	296,394	298,180	295,238	307,153	340,355	333,780	340,918
Atmospheric	35,000	38,334	32,154	31,602	32,455	41,074	51,555	53,640
Earth sciences	101,826	110,610	113,092	114,685	114,883	132,631	123,733	115,304
Oceanography	85,021	53,557	50,159	49,688	49,345	55,467	91,329	89,542
Other, n.e.c.	64,245	93,893	102,775	99,263	110,470	111,183	67,163	82,432
Mathematical sciences	114,487	114,070	110,238	113,849	111,191	114,151	118,127	126,242
Computer sciences	313,431	321,196	341,680	353,681	359,671	347,627	371,840	352,012
Life sciences	3,621,343	3,878,649	4,115,846	4,281,119	4,604,575	4,954,874	5,358,567	5,981,003
Agricultural sciences	47,454	54,227	55,164	52,012	60,454	65,030	56,382	61,337
Biological sciences	1,297,124	1,369,242	1,422,752	1,450,257	1,558,589	1,692,038	1,834,629	2,028,424
Medical sciences	2,094,506	2,254,346	2,430,995	2,574,774	2,769,723	2,976,768	3,236,015	3,633,266
Other, n.e.c.	182,259	200,834	206,935	204,076	215,809	221,038	231,541	257,976
Psychology	106,807	103,985	101,682	100,882	97,541	111,163	119,743	135,147
Social sciences	232,532	247,554	255,029	256,457	271,179	258,011	280,021	297,148
Economics	44,107	44,858	42,916	45,830	53,954	53,025	48,936	49,311
Political science	63,122	63,836	64,852	66,463	64,578	66,054	77,931	87,873
Sociology	48,486	51,096	49,157	54,626	60,322	58,018	68,840	78,352
Other, n.e.c.	76,817	87,764	98,104	89,538	92,325	80,914	84,314	81,612
Other sciences, n.e.c.	105,703	117,028	129,380	121,977	168,395	146,061	140,824	143,195

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-13. Federally financed R&D expenditures at private universities and colleges,
by science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	4,784,429	5,009,911	5,227,822	5,370,625	5,739,611	6,073,862	6,379,883	6,855,593
Engineering	786,229	814,193	824,791	847,857	883,604	912,559	924,708	935,634
Aeronautical and astronautical	70,679	78,836	85,399	79,479	82,486	73,993	61,753	60,575
Bioengineering/bio- medical	--	--	--	--	18,406	30,148	42,670	49,143
Chemical	53,611	56,431	60,399	58,276	52,205	52,306	60,346	65,219
Civil	42,684	44,307	44,399	46,679	45,183	40,660	48,640	51,925
Electrical	217,738	219,367	221,575	237,521	247,180	259,469	235,046	241,900
Mechanical	149,072	156,569	140,400	129,545	143,506	158,575	165,184	164,691
Metallurgical and materials	50,750	45,311	52,032	64,199	74,054	75,468	77,228	74,722
Other, n.e.c.	201,695	213,372	220,587	232,158	220,584	221,940	233,841	227,459
All sciences	3,998,200	4,195,718	4,403,031	4,522,768	4,856,007	5,161,303	5,455,175	5,919,959
Physical sciences	619,989	641,280	670,473	683,232	736,503	757,703	805,595	774,131
Astronomy	65,794	66,994	73,465	73,978	84,471	77,818	143,674	132,837
Chemistry	185,331	189,160	191,673	201,904	201,444	225,056	233,988	218,524
Physics	318,032	336,063	355,089	352,561	386,535	388,263	355,672	352,191
Other, n.e.c.	50,832	49,063	50,246	54,789	64,053	66,566	72,261	70,579
Environmental sciences	240,145	251,931	244,107	242,177	258,931	288,387	277,956	278,739
Atmospheric	32,316	35,298	29,622	28,320	29,775	37,501	46,836	48,004
Earth sciences	83,074	88,601	90,587	93,292	96,676	111,313	99,474	87,068
Oceanography	77,468	47,767	42,486	40,671	42,099	48,381	80,750	81,194
Other, n.e.c.	47,287	80,265	81,412	79,894	90,381	91,192	50,896	62,473
Mathematical sciences	102,010	100,493	97,825	100,218	94,939	98,335	100,083	106,092
Computer sciences	255,783	268,406	275,676	291,938	296,484	282,810	297,469	276,325
Life sciences	2,576,162	2,717,784	2,871,705	2,962,268	3,198,593	3,457,449	3,713,607	4,203,975
Agricultural sciences	16,676	19,612	19,793	17,086	26,494	25,216	17,250	18,444
Biological sciences	983,878	1,036,722	1,064,743	1,067,249	1,151,207	1,262,740	1,364,398	1,514,283
Medical sciences	1,444,099	1,521,619	1,651,112	1,744,174	1,880,964	2,012,839	2,166,287	2,485,149
Other, n.e.c.	131,509	139,831	136,057	133,759	139,928	156,654	165,672	186,099
Psychology	76,081	74,251	71,953	70,339	72,811	82,764	89,781	102,197
Social sciences	94,700	105,897	114,008	115,684	114,346	114,767	116,671	125,109
Economics	11,073	12,167	14,647	17,988	24,930	26,440	21,634	20,630
Political science	20,702	25,871	30,061	30,343	24,353	24,668	24,467	30,830
Sociology	26,871	29,914	28,563	32,664	32,726	33,304	37,643	40,284
Other, n.e.c.	36,054	37,945	40,737	34,689	32,337	30,355	32,927	33,365
Other sciences, n.e.c.	33,330	35,676	57,284	56,912	83,400	79,088	54,013	53,391

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-14. Non-Federal R&D expenditures at private universities and colleges,
by source of funds and science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	1,789,619	1,900,397	1,987,403	2,083,104	2,200,602	2,296,680	2,483,886	2,689,342
Source of funds								
State and local government	142,471	149,369	176,939	161,172	167,502	170,672	176,924	194,927
Industry	465,734	475,528	485,663	528,813	560,891	608,534	692,941	731,722
Institutional funds	607,309	636,344	659,788	751,214	808,749	786,220	835,027	932,039
All other sources	574,105	639,156	665,013	641,905	663,460	731,254	778,994	830,654
Field								
Engineering	256,877	253,351	249,157	271,294	268,549	290,085	289,098	326,058
Aeronautical and astronautical	16,233	14,365	12,300	14,787	9,969	20,689	10,090	12,709
Bioengineering/bio- medical	--	--	--	--	6,158	9,707	14,824	18,041
Chemical	34,386	31,874	30,956	32,095	27,433	29,581	33,928	37,843
Civil	24,442	24,155	24,870	26,281	27,145	28,355	32,968	35,268
Electrical	61,529	59,253	57,488	65,380	68,674	68,682	68,729	85,304
Mechanical	40,540	40,841	34,086	40,215	41,914	41,182	45,305	48,426
Metallurgical and materials	27,625	26,056	24,720	25,558	25,365	34,209	29,073	28,784
Other, n.e.c.	52,122	56,807	64,737	66,978	61,891	57,680	54,181	59,683
All sciences	1,532,742	1,647,046	1,738,246	1,811,810	1,932,053	2,006,595	2,194,788	2,363,284
Physical sciences	130,558	122,608	118,769	128,143	131,852	137,953	121,466	133,447
Astronomy	18,130	15,009	16,510	14,909	15,001	18,019	9,941	9,206
Chemistry	55,667	56,578	57,588	57,745	60,972	62,587	61,145	68,747
Physics	49,970	45,239	38,605	42,581	43,496	42,553	38,187	45,326
Other, n.e.c.	6,791	5,782	6,066	12,908	12,383	14,794	12,193	10,168
Environmental sciences	45,947	44,463	54,073	53,061	48,222	51,968	55,824	62,179
Atmospheric	2,684	3,036	2,532	3,282	2,680	3,573	4,719	5,636
Earth sciences	18,752	22,009	22,505	21,393	18,207	21,318	24,259	28,236
Oceanography	7,553	5,790	7,673	9,017	7,246	7,086	10,579	8,348
Other, n.e.c.	16,958	13,628	21,363	19,369	20,089	19,991	16,267	19,959
Mathematical sciences	12,477	13,577	12,413	13,631	16,252	15,816	18,044	20,150
Computer sciences	57,648	52,790	66,004	61,743	63,187	64,817	74,371	75,687
Life sciences	1,045,181	1,160,865	1,244,141	1,318,851	1,405,982	1,497,425	1,644,960	1,777,028
Agricultural sciences	30,778	34,615	35,371	34,926	33,960	39,814	39,132	42,893
Biological sciences	313,246	332,520	358,009	383,008	407,382	429,298	470,231	514,141
Medical sciences	650,407	732,727	779,883	830,600	888,759	963,929	1,069,728	1,148,117
Other, n.e.c.	50,750	61,003	70,878	70,317	75,881	64,384	65,869	71,877
Psychology	30,726	29,734	29,729	30,543	24,730	28,399	29,962	32,950
Social sciences	137,832	141,657	141,021	140,773	156,833	143,244	163,350	172,039
Economics	33,034	32,691	28,269	27,842	29,024	26,585	27,302	28,681
Political science	42,420	37,965	34,791	36,120	40,225	41,386	53,464	57,043
Sociology	21,615	21,182	20,594	21,962	27,596	24,714	31,197	38,068
Other, n.e.c.	40,763	49,819	57,367	54,849	59,988	50,559	51,387	48,247
Other sciences, n.e.c.	72,373	81,352	72,096	65,065	84,995	66,973	86,811	89,804

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-15. R&D expenditures at doctorate-granting institutions, by source of funds, science and engineering field, and control: fiscal years 1993, 1999, and 2000

[Dollars in thousands]

Source and field	Total			Public			Private		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total	19,615,731	27,069,321	29,596,635	13,122,931	18,320,354	20,164,555	6,492,800	8,748,967	9,432,080
Source of funds									
Federal Government	11,748,767	15,800,727	17,199,786	7,014,239	9,487,355	10,406,475	4,734,528	6,313,372	6,793,311
State and local government	1,527,053	1,952,958	2,159,563	1,386,401	1,777,505	1,966,452	140,652	175,453	193,111
Industry	1,332,045	2,003,667	2,145,038	874,783	1,320,454	1,423,133	457,262	683,213	721,905
Institutional funds	3,540,677	5,349,213	5,870,744	2,946,733	4,529,991	4,955,447	593,944	819,222	915,297
All other sources	1,467,189	1,962,756	2,221,504	900,775	1,205,049	1,413,048	566,414	757,707	808,456
Field									
Engineering	3,103,783	4,189,370	4,475,944	2,069,383	2,989,688	3,231,886	1,034,400	1,199,682	1,244,058
Aeronautical and astronautical	207,053	250,497	240,677	120,268	179,021	167,756	86,785	71,476	72,921
Bioengineering/bio-medical	--	134,984	169,621	--	78,792	103,675	--	56,192	65,946
Chemical	272,060	347,285	372,132	184,558	253,584	270,425	87,502	93,701	101,707
Civil	360,628	520,466	587,120	294,006	439,658	502,214	66,622	80,808	84,906
Electrical	686,192	1,004,842	1,098,410	408,731	702,431	773,776	277,461	302,411	324,634
Mechanical	473,169	609,582	617,379	286,670	404,718	411,519	186,499	204,864	205,860
Metallurgical and materials	297,658	382,015	396,412	219,602	275,875	293,171	78,056	106,140	103,241
Other, n.e.c.	807,023	939,699	994,193	555,548	655,609	709,350	251,475	284,090	284,843
All sciences	16,511,948	22,879,951	25,120,691	11,053,548	15,330,666	16,932,669	5,458,400	7,549,285	8,188,022
Physical sciences	2,068,533	2,524,658	2,629,914	1,338,651	1,629,049	1,746,858	729,882	895,609	883,056
Astronomy	257,295	387,285	389,240	174,083	234,842	247,977	83,212	152,443	141,263
Chemistry	707,370	873,160	920,968	477,860	598,288	646,110	229,510	274,872	274,858
Physics	915,084	1,114,866	1,164,424	554,963	730,656	777,795	360,121	384,210	386,629
Other, n.e.c.	188,784	149,347	155,282	131,745	65,263	74,976	57,039	84,084	80,306
Environmental sciences ..	1,274,945	1,638,368	1,718,179	992,891	1,308,830	1,381,269	282,054	329,538	336,910
Atmospheric	206,215	284,790	285,841	172,958	234,514	233,092	33,257	50,276	52,749
Earth sciences	403,353	521,692	544,067	302,711	400,087	431,264	100,642	121,605	112,803
Oceanography	441,229	583,087	612,593	356,429	492,140	523,353	84,800	90,947	89,240
Other, n.e.c.	224,148	248,799	275,678	160,793	182,089	193,560	63,355	66,710	82,118
Mathematical sciences ...	259,192	300,960	325,720	148,313	188,382	205,426	110,879	112,578	120,294
Computer sciences	597,016	831,047	850,308	285,240	461,325	500,499	311,776	369,722	349,809
Life sciences	10,750,640	15,485,185	17,331,692	7,156,356	10,163,459	11,387,292	3,594,284	5,321,726	5,944,400
Agricultural sciences	1,522,235	1,975,916	2,121,246	1,477,181	1,925,122	2,065,290	45,054	50,794	55,956
Biological sciences	3,484,926	4,968,542	5,542,352	2,207,696	3,154,843	3,536,151	1,277,230	1,813,699	2,006,201
Medical sciences	5,316,035	7,995,398	8,990,581	3,224,876	4,767,407	5,364,163	2,091,159	3,227,991	3,626,418
Other, n.e.c.	427,444	545,329	677,513	246,603	316,087	421,688	180,841	229,242	255,825
Psychology	333,684	449,646	501,039	232,421	334,778	371,549	101,263	114,868	129,490
Social sciences	872,655	1,219,919	1,264,418	644,540	951,764	978,589	228,115	268,155	285,829
Economics	225,964	262,186	250,712	182,597	214,181	202,547	43,367	48,005	48,165
Political science	148,673	198,301	224,438	86,470	122,181	138,192	62,203	76,120	86,246
Sociology	176,993	259,406	289,726	130,510	195,662	216,203	46,483	63,744	73,523
Other, n.e.c.	321,025	500,026	499,542	244,963	419,740	421,647	76,062	80,286	77,895
Other sciences, n.e.c.	355,283	430,168	499,421	255,136	293,079	361,187	100,147	137,089	138,234

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-16. Federally financed R&D expenditures at doctorate-granting institutions,
by science and engineering field, and control: fiscal years 1993, 1999, and 2000**

[Dollars in thousands]

Field	Total			Public			Private		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total	11,748,767	15,800,727	17,199,786	7,014,239	9,487,355	10,406,475	4,734,528	6,313,372	6,793,311
Engineering	1,830,261	2,399,182	2,520,496	1,046,833	1,479,224	1,590,289	783,428	919,958	930,207
Aeronautical and astronautical	154,565	173,397	164,704	83,922	111,953	104,429	70,643	61,444	60,275
Bioengineering/bio- medical	--	71,797	89,471	--	29,432	40,889	--	42,365	48,582
Chemical	141,915	177,961	193,524	88,524	117,856	128,888	53,391	60,105	64,636
Civil	150,217	213,364	229,312	107,668	164,952	177,712	42,549	48,412	51,600
Electrical	451,011	641,155	683,831	233,843	407,067	442,824	217,168	234,088	241,007
Mechanical	304,557	379,246	374,915	156,273	215,796	212,036	148,284	163,450	162,879
Metallurgical and materials	149,675	215,577	224,123	98,955	138,505	149,655	50,720	77,072	74,468
Other, n.e.c.	478,321	526,685	560,616	277,648	293,663	333,856	200,673	233,022	226,760
All sciences	9,918,506	13,401,545	14,679,290	5,967,406	8,008,131	8,816,186	3,951,100	5,393,414	5,863,104
Physical sciences	1,471,578	1,806,052	1,858,785	863,721	1,022,151	1,099,013	607,857	783,901	759,772
Astronomy	164,222	275,839	280,552	98,863	132,724	148,272	65,359	143,115	132,280
Chemistry	482,758	584,820	603,626	303,451	365,148	391,024	179,307	219,672	212,602
Physics	691,531	842,258	869,943	379,044	493,266	525,433	312,487	348,992	344,510
Other, n.e.c.	133,067	103,135	104,664	82,363	31,013	34,284	50,704	72,122	70,380
Environmental sciences	845,038	1,075,035	1,103,403	607,977	799,802	827,477	237,061	275,233	275,926
Atmospheric	157,249	219,782	220,528	126,672	174,167	173,388	30,577	45,615	47,140
Earth sciences	236,914	309,176	318,373	154,510	211,031	232,942	82,404	98,145	85,431
Oceanography	319,684	395,545	411,157	242,335	314,897	330,134	77,349	80,648	81,023
Other, n.e.c.	131,191	150,532	153,345	84,460	99,707	91,013	46,731	50,825	62,332
Mathematical sciences	194,878	201,399	218,831	95,206	105,261	117,056	99,672	96,138	101,775
Computer sciences	416,272	563,109	560,859	161,458	267,057	285,292	254,814	296,052	275,567
Life sciences	6,317,343	8,853,192	9,956,617	3,759,907	5,161,866	5,776,175	2,557,436	3,691,326	4,180,442
Agricultural sciences	423,570	511,338	538,709	409,155	497,504	523,484	14,415	13,834	15,225
Biological sciences	2,277,035	3,171,862	3,599,648	1,306,179	1,820,050	2,099,752	970,856	1,351,812	1,499,896
Medical sciences	3,364,587	4,853,538	5,436,516	1,922,846	2,691,690	2,955,556	1,441,741	2,161,848	2,480,960
Other, n.e.c.	252,151	316,454	381,744	121,727	152,622	197,383	130,424	163,832	184,361
Psychology	222,025	299,789	338,186	150,345	213,409	240,715	71,680	86,380	97,471
Social sciences	328,487	457,818	477,264	235,628	346,169	357,175	92,859	111,649	120,089
Economics	73,760	88,224	87,160	62,906	66,853	66,806	10,854	21,371	20,354
Political science	42,322	53,171	61,046	21,733	28,840	30,454	20,589	24,331	30,592
Sociology	87,903	116,508	132,236	62,339	81,084	94,091	25,564	35,424	38,145
Other, n.e.c.	124,502	199,915	196,822	88,650	169,392	165,824	35,852	30,523	30,998
Other sciences, n.e.c.	122,885	145,151	165,345	93,164	92,416	113,283	29,721	52,735	52,062

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-17. Non-Federal R&D expenditures at doctorate-granting institutions, by source of funds, science and engineering field, and control: fiscal years 1993, 1999, and 2000

[Dollars in thousands]

Source and field	Total			Public			Private		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total	7,866,964	11,268,594	12,396,849	6,108,692	8,832,999	9,758,080	1,758,272	2,435,595	2,638,769
Source of funds									
State and local government	1,527,053	1,952,958	2,159,563	1,386,401	1,777,505	1,966,452	140,652	175,453	193,111
Industry	1,332,045	2,003,667	2,145,038	874,783	1,320,454	1,423,133	457,262	683,213	721,905
Institutional funds	3,540,677	5,349,213	5,870,744	2,946,733	4,529,991	4,955,447	593,944	819,222	915,297
All other sources	1,467,189	1,962,756	2,221,504	900,775	1,205,049	1,413,048	566,414	757,707	808,456
Field									
Engineering	1,273,522	1,790,188	1,955,448	1,022,550	1,510,464	1,641,597	250,972	279,724	313,851
Aeronautical and astronautical	52,488	77,100	75,973	36,346	67,068	63,327	16,142	10,032	12,646
Bioengineering/bio- medical	--	63,187	80,150	--	49,360	62,786	--	13,827	17,364
Chemical	130,145	169,324	178,608	96,034	135,728	141,537	34,111	33,596	37,071
Civil	210,411	307,102	357,808	186,338	274,706	324,502	24,073	32,396	33,306
Electrical	235,181	363,687	414,579	174,888	295,364	330,952	60,293	68,323	83,627
Mechanical	168,612	230,336	242,464	130,397	188,922	199,483	38,215	41,414	42,981
Metallurgical and materials	147,983	166,438	172,289	120,647	137,370	143,516	27,336	29,068	28,773
Other, n.e.c.	328,702	413,014	433,577	277,900	361,946	375,494	50,802	51,068	58,083
All sciences	6,593,442	9,478,406	10,441,401	5,086,142	7,322,535	8,116,483	1,507,300	2,155,871	2,324,918
Physical sciences	596,955	718,606	771,129	474,930	606,898	647,845	122,025	111,708	123,284
Astronomy	93,073	111,446	108,688	75,220	102,118	99,705	17,853	9,328	8,983
Chemistry	224,612	288,340	317,342	174,409	233,140	255,086	50,203	55,200	62,256
Physics	223,553	272,608	294,481	175,919	237,390	252,362	47,634	35,218	42,119
Other, n.e.c.	55,717	46,212	50,618	49,382	34,250	40,692	6,335	11,962	9,926
Environmental sciences	429,907	563,333	614,776	384,914	509,028	553,792	44,993	54,305	60,984
Atmospheric	48,966	65,008	65,313	46,286	60,347	59,704	2,680	4,661	5,609
Earth sciences	166,439	212,516	225,694	148,201	189,056	198,322	18,238	23,460	27,372
Oceanography	121,545	187,542	201,436	114,094	177,243	193,219	7,451	10,299	8,217
Other, n.e.c.	92,957	98,267	122,333	76,333	82,382	102,547	16,624	15,885	19,786
Mathematical sciences	64,314	99,561	106,889	53,107	83,121	88,370	11,207	16,440	18,519
Computer sciences	180,744	267,938	289,449	123,782	194,268	215,207	56,962	73,670	74,242
Life sciences	4,433,297	6,631,993	7,375,075	3,396,449	5,001,593	5,611,117	1,036,848	1,630,400	1,763,958
Agricultural sciences	1,098,665	1,464,578	1,582,537	1,068,026	1,427,618	1,541,806	30,639	36,960	40,731
Biological sciences	1,207,891	1,796,680	1,942,704	901,517	1,334,793	1,436,399	306,374	461,887	506,305
Medical sciences	1,951,448	3,141,860	3,554,065	1,302,030	2,075,717	2,408,607	649,418	1,066,143	1,145,458
Other, n.e.c.	175,293	228,875	295,769	124,876	163,465	224,305	50,417	65,410	71,464
Psychology	111,659	149,857	162,853	82,076	121,369	130,834	29,583	28,488	32,019
Social sciences	544,168	762,101	787,154	408,912	605,595	621,414	135,256	156,506	165,740
Economics	152,204	173,962	163,552	119,691	147,328	135,741	32,513	26,634	27,811
Political science	106,351	145,130	163,392	64,737	93,341	107,738	41,614	51,789	55,654
Sociology	89,090	142,898	157,490	68,171	114,578	122,112	20,919	28,320	35,378
Other, n.e.c.	196,523	300,111	302,720	156,313	250,348	255,823	40,210	49,763	46,897
Other sciences, n.e.c.	232,398	285,017	334,076	161,972	200,663	247,904	70,426	84,354	86,172

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-18. R&D expenditures at historically black colleges and universities,
by source of funds and science and engineering field:
fiscal years 1993-2000**

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	191,369	211,439	241,434	263,508	290,369	293,190	254,825	261,681
Source of funds								
Federal Government	157,207	174,561	199,335	222,262	254,256	248,633	216,513	226,651
State and local government	8,577	9,533	11,162	11,842	11,346	12,908	6,877	10,534
Industry	4,796	6,724	6,481	6,450	5,182	5,030	5,388	6,084
Institutional funds	17,716	17,187	21,050	19,697	13,962	10,696	14,681	13,163
All other sources	3,073	3,434	3,406	3,257	5,623	15,923	11,366	5,249
Field								
Engineering	21,149	26,906	35,433	42,823	49,739	48,164	31,905	29,401
Aeronautical and astronautical	324	1,553	2,240	2,544	2,514	2,673	3,923	3,597
Bioengineering/bio- medical	--	--	--	--	164	183	56	883
Chemical	1,360	1,355	2,070	2,203	5,010	4,660	2,643	2,979
Civil	2,503	2,838	3,408	4,045	5,003	3,963	3,840	3,228
Electrical	4,360	6,842	8,089	11,106	8,749	8,191	6,531	6,136
Mechanical	6,860	7,438	9,548	10,849	16,704	17,899	8,186	6,705
Metallurgical and materials	58	190	1,614	2,212	3,561	2,518	379	167
Other, n.e.c.	5,684	6,690	8,464	9,864	8,034	8,077	6,347	5,706
All sciences	170,220	184,533	206,001	220,685	240,630	245,026	222,920	232,280
Physical sciences	32,380	39,458	41,401	40,225	47,801	46,815	48,920	40,491
Astronomy	1,576	2,614	4,295	5,853	7,269	4,384	4,567	4,306
Chemistry	13,551	13,715	14,797	15,169	16,534	21,772	22,985	13,989
Physics	16,395	22,542	21,297	18,935	23,633	20,206	20,800	22,133
Other, n.e.c.	858	587	1,012	268	365	453	568	63
Environmental sciences	3,853	6,087	15,562	17,218	14,214	14,700	11,327	11,226
Atmospheric	1,310	732	743	767	1,129	1,810	1,871	4,036
Earth sciences	39	507	1,756	2,509	1,753	2,958	2,443	2,850
Oceanography	245	653	587	299	185	173	447	940
Other, n.e.c.	2,259	4,195	12,476	13,643	11,147	9,759	6,566	3,400
Mathematical sciences	5,631	3,589	5,709	6,504	6,358	5,248	5,054	5,730
Computer sciences	4,686	5,020	8,791	16,814	15,646	14,138	15,686	14,269
Life sciences	106,870	114,743	107,713	120,909	138,233	143,598	124,692	137,540
Agricultural sciences	46,235	51,099	49,035	48,015	58,412	60,086	48,706	50,170
Biological sciences	41,710	45,477	43,458	51,052	54,619	57,851	45,699	48,670
Medical sciences	16,364	15,428	13,110	18,361	21,871	21,009	25,449	30,315
Other, n.e.c.	2,561	2,739	2,110	3,481	3,331	4,652	4,838	8,385
Psychology	3,326	3,580	3,947	2,019	1,135	1,002	2,275	1,700
Social sciences	9,917	8,914	10,333	9,740	9,878	8,082	8,459	10,893
Economics	3,190	2,741	3,196	1,175	1,426	1,156	1,344	1,427
Political science	513	549	438	749	987	464	299	731
Sociology	2,581	3,162	3,593	4,691	2,964	3,033	2,877	4,027
Other, n.e.c.	3,633	2,462	3,106	3,125	4,501	3,429	3,939	4,708
Other sciences, n.e.c.	3,557	3,142	12,545	7,256	7,365	11,443	6,507	10,431

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-19. Federally financed R&D expenditures at historically black colleges and universities, by science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	157,207	174,561	199,335	222,262	254,256	248,633	216,513	226,651
Engineering	15,901	21,746	30,955	37,300	45,068	41,139	27,644	25,469
Aeronautical and astronautical	324	1,420	2,069	2,128	2,433	2,370	3,619	3,520
Bioengineering/bio- medical	--	--	--	--	159	183	56	568
Chemical	1,086	1,091	1,803	1,891	4,511	3,668	2,171	2,765
Civil	1,340	1,941	2,582	2,507	3,781	3,139	2,844	2,246
Electrical	3,781	5,707	7,467	10,302	8,492	7,730	5,579	5,342
Mechanical	5,314	6,237	8,566	9,685	15,077	14,657	7,423	6,189
Metallurgical and materials	58	101	1,526	1,862	3,269	2,370	302	162
Other, n.e.c.	3,998	5,249	6,942	8,925	7,346	7,022	5,650	4,677
All sciences	141,306	152,815	168,380	184,962	209,188	207,494	188,869	201,182
Physical sciences	27,472	32,337	36,143	35,277	43,101	41,314	43,851	36,259
Astronomy	1,544	2,518	4,095	5,730	7,246	4,371	4,209	3,874
Chemistry	12,256	11,682	12,880	13,019	14,014	18,752	21,215	12,850
Physics	13,077	17,596	18,263	16,312	21,511	17,979	17,920	19,528
Other, n.e.c.	595	541	905	216	330	212	507	7
Environmental sciences	2,847	4,377	5,517	12,488	11,134	11,926	8,182	9,318
Atmospheric	832	236	348	434	825	1,766	1,818	3,996
Earth sciences	32	37	1,094	1,348	721	1,623	1,042	1,798
Oceanography	212	150	286	183	91	79	383	824
Other, n.e.c.	1,771	3,954	3,789	10,523	9,497	8,458	4,939	2,700
Mathematical sciences	3,276	2,928	4,291	4,261	4,328	2,530	2,747	4,405
Computer sciences	4,138	4,217	6,951	13,336	13,763	12,284	13,550	12,497
Life sciences	93,379	97,711	94,247	104,716	121,856	123,459	109,467	120,848
Agricultural sciences	40,019	44,511	42,445	41,803	50,303	47,640	40,446	42,537
Biological sciences	38,201	39,418	39,452	44,513	49,109	53,174	42,506	45,272
Medical sciences	13,603	12,271	11,263	16,119	20,730	18,904	22,886	26,636
Other, n.e.c.	1,556	1,511	1,087	2,281	1,714	3,741	3,629	6,403
Psychology	3,050	2,930	3,665	1,729	1,025	979	1,777	1,334
Social sciences	5,527	6,477	7,300	6,605	7,281	5,613	5,354	7,972
Economics	2,833	2,595	2,904	1,014	1,258	1,063	1,171	1,121
Political science	107	274	173	425	457	254	134	508
Sociology	1,627	2,110	2,588	3,587	2,177	2,006	1,490	3,153
Other, n.e.c.	960	1,498	1,635	1,579	3,389	2,290	2,559	3,190
Other sciences, n.e.c.	1,617	1,838	10,266	6,550	6,700	9,389	3,941	8,549

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-20. Non-Federal R&D expenditures at historically black colleges and universities,
by source of funds and science and engineering field: fiscal years 1993-2000**

[Dollars in thousands]

Source and field	1993	1994	1995	1996	1997	1998	1999	2000
Total	34,162	36,878	42,099	41,246	36,113	44,557	38,312	35,030
Source of funds								
State and local government	8,577	9,533	11,162	11,842	11,346	12,908	6,877	10,534
Industry	4,796	6,724	6,481	6,450	5,182	5,030	5,388	6,084
Institutional funds	17,716	17,187	21,050	19,697	13,962	10,696	14,681	13,163
All other sources	3,073	3,434	3,406	3,257	5,623	15,923	11,366	5,249
Field								
Engineering	5,248	5,160	4,478	5,523	4,671	7,025	4,261	3,932
Aeronautical and astronautical	0	133	171	416	81	303	304	77
Bioengineering/bio- medical	--	--	--	--	5	0	0	315
Chemical	274	264	267	312	499	992	472	214
Civil	1,163	897	826	1,538	1,222	824	996	982
Electrical	579	1,135	622	804	257	461	952	794
Mechanical	1,546	1,201	982	1,164	1,627	3,242	763	516
Metallurgical and materials	0	89	88	350	292	148	77	5
Other, n.e.c.	1,686	1,441	1,522	939	688	1,055	697	1,029
All sciences	28,914	31,718	37,621	35,723	31,442	37,532	34,051	31,098
Physical sciences	4,908	7,121	5,258	4,948	4,700	5,501	5,069	4,232
Astronomy	32	96	200	123	23	13	358	432
Chemistry	1,295	2,033	1,917	2,150	2,520	3,020	1,770	1,139
Physics	3,318	4,946	3,034	2,623	2,122	2,227	2,880	2,605
Other, n.e.c.	263	46	107	52	35	241	61	56
Environmental sciences	1,006	1,710	10,045	4,730	3,080	2,774	3,145	1,908
Atmospheric	478	496	395	333	304	44	53	40
Earth sciences	7	470	662	1,161	1,032	1,335	1,401	1,052
Oceanography	33	503	301	116	94	94	64	116
Other, n.e.c.	488	241	8,687	3,120	1,650	1,301	1,627	700
Mathematical sciences	2,355	661	1,418	2,243	2,030	2,718	2,307	1,325
Computer sciences	548	803	1,840	3,478	1,883	1,854	2,136	1,772
Life sciences	13,491	17,032	13,466	16,193	16,377	20,139	15,225	16,692
Agricultural sciences	6,216	6,588	6,590	6,212	8,109	12,446	8,260	7,633
Biological sciences	3,509	6,059	4,006	6,539	5,510	4,677	3,193	3,398
Medical sciences	2,761	3,157	1,847	2,242	1,141	2,105	2,563	3,679
Other, n.e.c.	1,005	1,228	1,023	1,200	1,617	911	1,209	1,982
Psychology	276	650	282	290	110	23	498	366
Social sciences	4,390	2,437	3,033	3,135	2,597	2,469	3,105	2,921
Economics	357	146	292	161	168	93	173	306
Political science	406	275	265	324	530	210	165	223
Sociology	954	1,052	1,005	1,104	787	1,027	1,387	874
Other, n.e.c.	2,673	964	1,471	1,546	1,112	1,139	1,380	1,518
Other sciences, n.e.c.	1,940	1,304	2,279	706	665	2,054	2,566	1,882

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-21. R&D expenditures at universities and colleges, by geographic division and source of funds: fiscal year 2000

[Dollars in millions]

Division	Total	Federal	Non-Federal
Total	30,062	17,493	12,569
New England	2,357	1,619	738
Middle Atlantic	4,408	2,766	1,642
East North Central	4,255	2,311	1,945
West North Central	2,010	1,022	988
South Atlantic	5,606	3,208	2,397
East South Central	1,324	730	595
West South Central	2,822	1,423	1,399
Mountain	1,887	1,197	690
Pacific	5,311	3,170	2,141
Outlying Areas	82	48	34

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-22. R&D expenditures at doctorate-granting institutions, by geographic division, State, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 1 of 2

Division and State	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Total	29,596,635	17,199,786	2,159,563	2,145,038	5,870,744	2,221,504
New England	2,332,485	1,606,831	78,774	185,902	248,741	212,237
Connecticut	464,524	302,850	15,124	28,102	73,580	44,868
Maine	54,821	24,412	5,872	2,899	19,674	1,964
Massachusetts	1,469,070	1,055,908	40,205	137,256	92,035	143,666
New Hampshire	150,982	95,290	9,747	9,197	22,924	13,824
Rhode Island	129,697	88,510	4,564	2,735	30,289	3,599
Vermont	63,391	39,861	3,262	5,713	10,239	4,316
Middle Atlantic	4,344,524	2,725,565	189,192	284,958	729,358	415,451
New Jersey	566,022	256,896	46,015	29,633	159,774	73,704
New York	2,240,471	1,442,647	99,331	96,586	368,764	233,143
Pennsylvania	1,538,031	1,026,022	43,846	158,739	200,820	108,604
East North Central	4,214,128	2,291,863	296,843	269,248	1,050,109	306,065
Illinois	1,157,321	672,822	71,372	54,352	278,482	80,293
Indiana	503,422	228,073	34,369	42,009	178,533	20,438
Michigan	986,941	550,275	62,637	65,593	238,692	69,744
Ohio	913,839	495,520	83,373	87,337	179,333	68,276
Wisconsin	652,605	345,173	45,092	19,957	175,069	67,314
West North Central	1,996,661	1,014,821	193,802	137,969	507,066	143,003
Iowa	416,295	202,465	56,344	32,473	103,574	21,439
Kansas	256,673	105,363	43,329	23,269	69,864	14,848
Minnesota	411,380	229,958	52,342	26,392	70,330	32,358
Missouri	609,304	368,380	25,619	33,439	129,688	52,178
Nebraska	208,334	65,653	7,226	17,635	101,134	16,686
North Dakota	67,406	29,343	2,417	4,400	28,651	2,595
South Dakota	27,269	13,659	6,525	361	3,825	2,899
South Atlantic	5,515,978	3,140,489	483,129	484,776	1,106,401	301,183
Delaware	74,711	37,716	4,032	3,757	19,430	9,776
District of Columbia	241,339	183,321	3,328	16,286	15,088	23,316
Florida	842,398	402,168	102,392	78,456	219,176	40,206
Georgia	913,704	407,393	76,599	92,212	298,827	38,673
Maryland	1,495,132	1,079,720	81,539	49,865	180,378	103,630
North Carolina	1,014,712	558,997	111,366	168,378	145,654	30,317
South Carolina	284,544	124,608	31,503	15,470	100,941	12,022
Virginia	576,945	312,935	69,463	52,842	103,113	38,592
West Virginia	72,493	33,631	2,907	7,510	23,794	4,651
East South Central	1,289,819	703,181	104,209	66,369	321,013	95,047
Alabama	417,297	267,581	6,052	19,581	87,899	36,184
Kentucky	266,916	92,012	20,840	17,745	119,395	16,924
Mississippi	207,163	107,689	38,833	10,973	46,603	3,065
Tennessee	398,443	235,899	38,484	18,070	67,116	38,874
West South Central	2,764,050	1,384,694	374,274	215,008	518,971	271,103
Arkansas	124,494	54,407	34,621	8,067	20,321	7,078
Louisiana	386,072	159,838	74,720	25,413	93,552	32,549
Oklahoma	249,357	90,872	42,142	16,754	87,952	11,637
Texas	2,004,127	1,079,577	222,791	164,774	317,146	219,839

See explanatory information and SOURCE at end of table.

Table B-22. R&D expenditures at doctorate-granting institutions, by geographic division, State, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 2 of 2

Division and State	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Mountain	1,862,854	1,177,684	114,616	105,308	378,992	86,254
Arizona	465,777	244,938	15,221	28,519	158,810	18,289
Colorado	537,113	422,239	23,688	23,754	52,754	14,678
Idaho	70,246	26,737	18,157	5,020	16,882	3,450
Montana	94,914	48,942	16,763	9,997	15,658	3,554
Nevada	106,340	60,005	7,032	5,532	29,227	4,544
New Mexico	237,311	166,167	11,920	11,692	41,740	5,792
Utah	308,059	192,100	20,365	17,853	43,818	33,923
Wyoming	43,094	16,556	1,470	2,941	20,103	2,024
Pacific	5,201,607	3,111,855	310,617	390,575	997,979	390,581
Alaska	102,500	46,605	3,267	19,686	32,937	5
California	3,959,884	2,286,432	222,208	283,082	814,151	354,011
Hawaii	161,300	95,419	35,474	11,158	19,249	0
Oregon	343,785	245,336	35,400	14,665	32,239	16,145
Washington	634,138	438,063	14,268	61,984	99,403	20,420
Outlying Areas	74,529	42,803	14,107	4,925	12,114	580

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-23. R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 1 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Total	19,615,731	20,673,195	21,792,051	22,644,082	23,928,487	25,381,772	27,069,321	29,596,635
New England	1,750,226	1,787,844	1,806,255	1,860,943	1,977,740	2,049,905	2,148,567	2,332,485
Connecticut	364,708	366,948	377,225	388,134	392,668	402,671	415,182	464,524
Maine	24,879	29,393	31,901	34,684	33,144	33,106	41,452	54,821
Massachusetts	1,108,131	1,136,328	1,150,583	1,178,562	1,272,920	1,326,994	1,379,881	1,469,070
New Hampshire	99,475	101,552	93,073	98,638	107,505	117,323	127,135	150,982
Rhode Island	103,194	101,848	99,408	107,266	111,977	111,979	120,868	129,697
Vermont	49,839	51,775	54,065	53,659	59,526	57,832	64,049	63,391
Middle Atlantic	2,946,873	3,139,452	3,315,031	3,375,003	3,483,223	3,698,760	3,925,826	4,344,524
New Jersey	373,816	406,019	440,042	452,917	462,052	484,260	520,600	566,022
New York	1,554,051	1,655,487	1,735,458	1,732,340	1,779,991	1,881,274	2,028,668	2,240,471
Pennsylvania	1,019,006	1,077,946	1,139,531	1,189,746	1,241,180	1,333,226	1,376,558	1,538,031
East North Central	2,797,212	2,947,205	3,076,543	3,239,549	3,429,954	3,644,452	3,875,290	4,214,128
Illinois	757,508	793,745	812,287	862,321	926,515	1,011,054	1,086,793	1,157,321
Indiana	302,811	335,227	375,719	389,982	400,243	424,722	458,717	503,422
Michigan	699,957	730,019	774,005	807,900	842,303	876,375	914,516	986,941
Ohio	592,744	621,390	641,550	693,786	763,604	805,015	826,336	913,839
Wisconsin	444,192	466,824	472,982	485,560	497,289	527,286	588,928	652,605
West North Central	1,343,217	1,402,458	1,477,904	1,516,207	1,620,182	1,676,601	1,812,442	1,996,661
Iowa	298,745	315,560	322,769	332,402	341,772	357,927	370,651	416,295
Kansas	154,103	168,880	181,496	181,775	197,586	211,465	232,887	256,673
Minnesota	332,298	318,138	336,805	341,468	363,392	360,629	371,462	411,380
Missouri	344,566	374,610	397,192	404,875	459,405	478,295	544,862	609,304
Nebraska	137,134	147,881	158,633	158,398	177,373	186,200	205,363	208,334
North Dakota	54,175	55,709	59,617	71,849	56,096	56,945	61,695	67,406
South Dakota	22,196	21,680	21,392	25,440	24,558	25,140	25,522	27,269
South Atlantic	3,635,612	3,859,538	4,131,463	4,268,651	4,560,211	4,781,406	5,109,617	5,515,978
Delaware	52,627	50,734	53,161	54,154	65,095	69,896	73,521	74,711
District of Columbia	145,218	151,694	181,461	201,445	214,019	227,636	218,044	241,339
Florida	488,551	521,516	604,103	638,102	702,184	705,197	780,925	842,398
Georgia	546,960	606,212	669,507	712,188	766,346	794,691	828,886	913,704
Maryland	1,148,279	1,166,061	1,200,414	1,236,171	1,272,173	1,318,062	1,379,742	1,495,132
North Carolina	616,671	672,021	702,383	741,679	801,797	873,910	980,612	1,014,712
South Carolina	178,174	196,822	220,088	217,881	219,000	240,875	260,995	284,544
Virginia	404,111	435,192	446,947	411,825	455,959	488,606	523,335	576,945
West Virginia	55,021	59,286	53,399	55,206	63,638	62,533	63,557	72,493
East South Central	787,043	851,267	883,136	932,162	981,151	1,089,345	1,154,314	1,289,819
Alabama	281,209	304,961	327,403	342,021	368,602	402,502	405,323	417,297
Kentucky	122,409	126,026	134,784	148,376	158,238	200,682	231,085	266,916
Mississippi	105,739	114,311	112,794	124,675	124,601	145,717	153,228	207,163
Tennessee	277,686	305,969	308,155	317,090	329,710	340,444	364,678	398,443
West South Central	1,900,680	2,006,471	2,079,216	2,131,461	2,229,155	2,331,327	2,505,888	2,764,050
Arkansas	74,817	81,414	88,667	94,006	103,134	112,135	107,178	124,494
Louisiana	255,171	272,614	318,534	307,839	332,267	340,741	362,842	386,072
Oklahoma	172,968	174,585	186,371	201,626	186,702	206,627	235,286	249,357
Texas	1,397,724	1,477,858	1,485,644	1,527,990	1,607,052	1,671,824	1,800,582	2,004,127

See explanatory information and SOURCE at end of table.

**Table B-23. R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 2 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Mountain	1,231,771	1,324,612	1,459,758	1,465,669	1,531,860	1,638,401	1,722,530	1,862,854
Arizona	310,721	342,792	380,216	375,881	376,818	405,999	439,286	465,777
Colorado	331,081	367,527	394,065	406,203	427,435	483,388	501,562	537,113
Idaho	48,774	55,390	58,621	64,930	63,077	68,983	68,173	70,246
Montana	48,080	53,057	66,879	71,518	70,591	72,425	79,847	94,914
Nevada	79,124	79,121	86,902	84,970	88,331	83,888	91,485	106,340
New Mexico	186,750	191,546	230,393	213,691	219,150	226,071	221,788	237,311
Utah	194,685	196,715	202,212	207,923	238,705	249,147	273,192	308,059
Wyoming	32,556	38,464	40,470	40,553	47,753	48,500	47,197	43,094
Pacific	3,175,249	3,302,941	3,493,109	3,781,718	4,038,564	4,383,983	4,724,304	5,201,607
Alaska	66,796	76,093	72,216	71,381	70,943	75,606	88,825	102,500
California	2,380,979	2,465,183	2,597,919	2,817,913	3,049,252	3,314,274	3,572,900	3,959,884
Hawaii	73,961	70,079	78,429	111,202	120,107	148,007	156,810	161,300
Oregon	225,750	242,822	258,575	276,109	290,603	312,483	326,167	343,785
Washington	427,763	448,764	485,970	505,113	507,659	533,613	579,602	634,138
Outlying Areas	47,848	51,407	69,636	72,719	76,447	87,592	90,543	74,529

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-24. Federally financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 1 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Total	11,748,767	12,432,161	13,099,682	13,593,138	14,039,577	14,859,456	15,800,727	17,199,786
New England	1,173,959	1,199,864	1,236,204	1,252,581	1,356,263	1,434,063	1,494,181	1,606,831
Connecticut	220,562	222,569	227,915	233,933	242,385	261,929	272,839	302,850
Maine	8,959	11,386	15,789	16,211	15,066	13,028	19,163	24,412
Massachusetts	773,666	795,502	828,056	830,922	918,071	978,943	1,007,255	1,055,908
New Hampshire	67,727	66,794	60,131	62,987	67,282	70,966	77,327	95,290
Rhode Island	71,515	69,918	71,381	77,007	79,417	77,737	81,512	88,510
Vermont	31,530	33,695	32,932	31,521	34,042	31,460	36,085	39,861
Middle Atlantic	1,902,400	2,004,105	2,072,298	2,123,278	2,176,574	2,290,804	2,448,564	2,725,565
New Jersey	166,835	190,721	207,257	215,525	224,084	227,706	239,702	256,896
New York	1,058,602	1,094,689	1,110,597	1,113,168	1,144,937	1,194,825	1,309,809	1,442,647
Pennsylvania	676,963	718,695	754,444	794,585	807,553	868,273	899,053	1,026,022
East North Central	1,573,127	1,659,544	1,727,971	1,789,591	1,893,474	1,999,200	2,127,252	2,291,863
Illinois	424,745	452,241	463,631	492,351	529,117	574,963	618,342	672,822
Indiana	167,743	181,226	197,910	203,390	209,071	213,288	222,787	228,073
Michigan	377,278	400,670	420,747	425,145	453,664	472,081	505,545	550,275
Ohio	348,166	357,928	375,061	390,708	417,921	442,078	471,673	495,520
Wisconsin	255,195	267,479	270,622	277,997	283,701	296,790	308,905	345,173
West North Central	643,289	695,388	735,234	760,384	804,989	824,294	891,381	1,014,821
Iowa	145,006	157,643	163,620	161,262	162,060	167,006	177,470	202,465
Kansas	59,635	64,115	70,026	68,823	75,116	80,214	88,634	105,363
Minnesota	174,836	181,166	194,953	199,068	200,297	204,899	207,780	229,958
Missouri	190,959	201,985	212,750	232,258	271,199	274,704	317,589	368,380
Nebraska	38,530	52,971	55,421	52,186	61,231	62,578	61,226	65,653
North Dakota	25,223	27,537	27,841	35,659	24,207	23,191	25,923	29,343
South Dakota	9,100	9,971	10,623	11,128	10,879	11,702	12,759	13,659
South Atlantic	2,233,923	2,399,959	2,539,140	2,613,100	2,665,878	2,831,762	2,961,791	3,140,489
Delaware	26,170	26,250	27,352	29,509	32,031	33,688	34,628	37,716
District of Columbia	100,345	103,677	132,770	147,212	153,846	161,698	169,373	183,321
Florida	267,717	288,429	317,081	315,555	340,541	351,088	390,756	402,168
Georgia	273,079	287,139	306,745	335,769	347,407	363,140	371,177	407,393
Maryland	848,597	895,897	908,933	924,262	936,567	1,003,068	1,051,429	1,079,720
North Carolina	386,742	421,018	444,183	455,325	452,486	499,055	515,116	558,997
South Carolina	73,020	90,558	109,443	120,015	102,887	107,258	106,551	124,608
Virginia	226,591	251,829	262,169	254,419	270,490	287,757	296,431	312,935
West Virginia	31,662	35,162	30,464	31,034	29,623	25,010	26,330	33,631
East South Central	451,921	493,885	504,040	536,289	567,698	605,740	627,225	703,181
Alabama	161,331	177,323	189,847	213,580	230,894	253,186	253,057	267,581
Kentucky	55,698	58,080	59,811	64,756	75,649	76,003	81,720	92,012
Mississippi	54,715	61,265	62,585	62,497	62,350	73,329	78,529	107,689
Tennessee	180,177	197,217	191,797	195,456	198,805	203,222	213,919	235,899
West South Central	865,901	922,861	983,412	1,031,249	1,095,177	1,144,703	1,227,719	1,384,694
Arkansas	25,395	29,506	33,427	32,917	35,146	38,165	42,467	54,407
Louisiana	95,891	102,697	136,253	125,254	129,285	134,956	144,365	159,838
Oklahoma	56,475	59,053	59,504	72,817	71,421	81,689	86,046	90,872
Texas	688,140	731,605	754,228	800,261	859,325	889,893	954,841	1,079,577

See explanatory information and SOURCE at end of table.

**Table B-24. Federally financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 2 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Mountain	717,796	776,846	881,604	863,163	899,131	975,465	1,063,090	1,177,684
Arizona	149,803	182,009	210,475	199,889	198,097	210,170	239,142	244,938
Colorado	222,107	239,109	263,802	269,866	289,514	327,481	356,940	422,239
Idaho	17,026	18,075	19,710	18,535	18,544	23,552	25,521	26,737
Montana	21,399	24,413	27,382	29,258	31,261	35,730	40,858	48,942
Nevada	43,196	43,614	47,708	46,713	43,934	45,496	51,387	60,005
New Mexico	113,060	118,994	156,554	137,607	144,639	149,911	152,570	166,167
Utah	136,630	135,517	140,600	146,304	158,139	165,319	177,563	192,100
Wyoming	14,575	15,115	15,373	14,991	15,003	17,806	19,109	16,556
Pacific	2,160,711	2,250,169	2,380,426	2,581,293	2,537,345	2,708,150	2,908,714	3,111,855
Alaska	41,616	40,770	37,285	30,351	28,127	31,505	34,647	46,605
California	1,630,280	1,697,546	1,800,500	1,947,922	1,875,953	1,989,478	2,138,671	2,286,432
Hawaii	41,362	39,392	44,238	66,902	72,421	86,886	93,418	95,419
Oregon	134,956	145,737	158,076	174,616	195,030	213,480	229,256	245,336
Washington	312,497	326,724	340,327	361,502	365,814	386,801	412,722	438,063
Outlying Areas	25,740	29,540	39,353	42,210	43,048	45,275	50,810	42,803

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-25. State and local government-financed R&D expenditures at doctorate-granting institutions, by geographic division and State: fiscal years 1993-2000

[Dollars in thousands]

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Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Total	1,527,053	1,513,562	1,645,164	1,766,856	1,860,419	1,891,449	1,952,958	2,159,563
New England	38,846	35,706	42,583	57,780	56,889	60,421	61,976	78,774
Connecticut	10,067	12,297	18,732	19,938	13,730	13,157	10,783	15,124
Maine	1,711	2,290	2,005	1,594	1,551	1,796	1,389	5,872
Massachusetts	15,744	12,503	13,443	25,244	29,774	31,663	33,640	40,205
New Hampshire	5,846	2,890	3,963	7,308	7,990	8,300	8,961	9,747
Rhode Island	2,812	3,154	1,986	1,172	1,161	2,857	4,485	4,564
Vermont	2,666	2,572	2,454	2,524	2,683	2,648	2,718	3,262
Middle Atlantic	132,152	145,548	174,106	163,739	159,633	161,702	178,953	189,192
New Jersey	36,361	39,167	39,535	42,834	37,274	39,773	45,013	46,015
New York	75,614	77,386	99,617	83,812	80,674	78,761	82,155	99,331
Pennsylvania	20,177	28,995	34,954	37,093	41,685	43,168	51,785	43,846
East North Central	219,459	194,939	209,635	216,306	239,745	249,036	256,228	296,843
Illinois	45,716	43,863	47,279	47,358	53,968	49,572	60,265	71,372
Indiana	20,552	19,823	22,463	23,232	23,826	25,517	27,877	34,369
Michigan	39,541	41,345	51,788	48,539	50,800	56,017	57,543	62,637
Ohio	45,240	48,287	45,556	55,084	70,078	74,406	67,991	83,373
Wisconsin	68,410	41,621	42,549	42,093	41,073	43,524	42,552	45,092
West North Central	194,523	196,109	208,350	215,883	226,149	226,590	198,020	193,802
Iowa	38,218	47,189	47,279	49,905	52,713	52,945	53,415	56,344
Kansas	36,640	35,147	39,353	40,456	45,002	46,941	50,300	43,329
Minnesota	49,861	45,786	49,543	47,842	50,539	47,118	49,082	52,342
Missouri	18,959	19,270	21,486	21,691	21,342	23,506	24,812	25,619
Nebraska	39,627	39,606	42,383	45,388	47,142	46,602	10,648	7,226
North Dakota	1,532	1,493	1,534	1,555	1,070	1,123	1,965	2,417
South Dakota	9,686	7,618	6,772	9,046	8,341	8,355	7,798	6,525
South Atlantic	308,501	334,556	344,692	399,483	431,074	422,619	452,657	483,129
Delaware	3,710	2,180	2,144	2,410	2,977	4,600	5,310	4,032
District of Columbia	1,038	1,459	814	1,446	1,267	1,593	2,582	3,328
Florida	31,641	41,240	41,466	83,234	90,076	79,258	90,393	102,392
Georgia	39,325	44,663	55,663	61,862	68,844	69,604	73,687	76,599
Maryland	93,252	88,792	79,267	84,330	82,024	62,375	76,096	81,539
North Carolina	75,340	91,962	98,567	103,533	115,928	126,438	120,297	111,366
South Carolina	16,057	15,304	17,899	20,887	20,697	27,069	26,593	31,503
Virginia	46,134	47,020	46,849	39,492	46,848	48,728	54,550	69,463
West Virginia	2,004	1,936	2,023	2,289	2,413	2,954	3,149	2,907
East South Central	86,280	66,600	75,753	82,190	79,932	86,605	90,698	104,209
Alabama	26,991	6,052	6,991	5,789	5,251	7,071	8,923	6,052
Kentucky	6,198	6,197	9,589	11,467	7,446	14,254	12,441	20,840
Mississippi	21,836	20,528	23,778	29,173	29,324	29,455	31,138	38,833
Tennessee	31,255	33,823	35,395	35,761	37,911	35,825	38,196	38,484
West South Central	271,034	268,835	281,665	304,693	315,620	324,480	333,025	374,274
Arkansas	24,110	23,342	24,233	26,073	29,690	33,089	32,499	34,621
Louisiana	64,306	65,431	71,862	72,286	75,199	77,897	79,289	74,720
Oklahoma	22,399	19,275	19,699	30,472	35,622	37,406	41,610	42,142
Texas	160,219	160,787	165,871	175,862	175,109	176,088	179,627	222,791

See explanatory information and SOURCE at end of table.

**Table B-25. State and local government-financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

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Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Mountain	81,483	72,504	106,045	112,017	115,638	113,028	106,035	114,616
Arizona	6,333	7,257	8,080	8,022	10,266	11,812	11,753	15,221
Colorado	18,026	8,745	22,122	28,049	26,833	25,787	24,672	23,688
Idaho	12,550	9,463	20,615	21,555	20,940	21,635	15,625	18,157
Montana	9,029	9,268	12,914	13,433	14,368	13,784	13,719	16,763
Nevada	4,361	4,570	6,460	3,538	4,411	4,533	5,442	7,032
New Mexico	13,998	14,573	17,298	16,842	14,954	12,555	12,242	11,920
Utah	13,075	14,808	15,431	16,810	17,876	17,556	19,852	20,365
Wyoming	4,111	3,820	3,125	3,768	5,990	5,366	2,730	1,470
Pacific	186,065	189,936	183,572	193,892	213,976	224,882	251,433	310,617
Alaska	3,012	4,625	5,607	5,842	3,964	3,680	3,913	3,267
California	112,499	119,649	107,103	112,962	134,392	141,724	166,656	222,208
Hawaii	27,099	25,204	26,789	31,826	28,440	37,002	35,111	35,474
Oregon	29,762	29,042	30,312	31,906	32,335	29,728	30,534	35,400
Washington	13,693	11,416	13,761	11,356	14,845	12,748	15,219	14,268
Outlying Areas	8,710	8,829	18,763	20,873	21,763	22,086	23,933	14,107

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-26. Industry-financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 1 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Total	1,332,045	1,392,810	1,456,777	1,571,837	1,702,749	1,856,072	2,003,667	2,145,038
New England	133,414	130,979	125,519	144,849	146,530	153,419	171,277	185,902
Connecticut	18,351	18,814	20,327	23,378	25,387	25,916	25,904	28,102
Maine	4,117	4,406	4,158	4,214	5,609	7,074	2,324	2,899
Massachusetts	98,319	95,741	89,657	105,800	103,260	106,633	124,097	137,256
New Hampshire	4,842	4,309	3,919	3,886	4,880	6,209	8,939	9,197
Rhode Island	3,212	2,831	1,991	2,340	1,995	2,074	2,901	2,735
Vermont	4,573	4,878	5,467	5,231	5,399	5,513	7,112	5,713
Middle Atlantic	225,316	232,721	240,857	240,978	261,644	275,912	281,240	284,958
New Jersey	26,115	30,042	25,861	23,703	26,186	27,128	30,227	29,633
New York	87,632	90,450	94,693	94,056	96,133	93,123	97,407	96,586
Pennsylvania	111,569	112,229	120,303	123,219	139,325	155,661	153,606	158,739
East North Central	181,149	190,735	199,636	232,836	240,822	261,892	255,586	269,248
Illinois	44,745	42,948	42,519	48,582	48,587	56,246	55,164	54,352
Indiana	22,535	31,873	34,542	35,539	33,321	40,336	41,461	42,009
Michigan	47,390	47,420	51,386	58,670	57,186	59,053	60,606	65,593
Ohio	47,781	49,197	54,316	71,745	82,653	87,999	80,319	87,337
Wisconsin	18,698	19,297	16,873	18,300	19,075	18,258	18,036	19,957
West North Central	90,082	98,455	105,722	102,843	108,396	117,929	130,340	137,969
Iowa	17,907	18,411	19,391	22,285	24,226	31,058	35,759	32,473
Kansas	7,527	7,861	11,434	12,131	11,907	12,104	19,182	23,269
Minnesota	21,606	23,809	23,510	23,809	24,280	24,128	23,953	26,392
Missouri	31,492	35,140	36,639	27,107	30,047	29,589	30,301	33,439
Nebraska	8,891	10,664	10,933	12,268	13,686	16,749	17,231	17,635
North Dakota	2,173	1,989	3,346	4,505	3,439	3,806	3,608	4,400
South Dakota	486	581	469	738	811	495	306	361
South Atlantic	279,957	285,544	306,587	321,532	341,018	383,758	451,638	484,776
Delaware	4,857	4,117	3,681	2,964	3,361	3,859	4,152	3,757
District of Columbia	10,313	11,804	13,297	14,448	18,381	19,481	14,349	16,286
Florida	40,565	37,516	36,382	46,717	55,762	51,668	63,533	78,456
Georgia	51,968	53,469	55,129	63,791	73,284	85,820	89,612	92,212
Maryland	47,737	45,843	55,986	58,767	41,067	41,623	33,561	49,865
North Carolina	70,214	66,237	74,332	86,086	96,482	119,469	178,754	168,378
South Carolina	14,242	18,990	19,364	10,678	8,682	11,400	12,823	15,470
Virginia	36,088	43,510	45,256	34,473	40,280	45,891	49,322	52,842
West Virginia	3,973	4,058	3,160	3,608	3,719	4,547	5,532	7,510
East South Central	62,871	65,446	71,065	77,337	71,065	79,101	74,385	66,369
Alabama	23,729	25,170	29,164	29,706	29,685	30,279	22,287	19,581
Kentucky	13,575	15,970	16,627	19,686	14,781	18,468	21,209	17,745
Mississippi	9,824	8,885	8,929	11,122	9,169	10,399	9,570	10,973
Tennessee	15,743	15,421	16,345	16,823	17,430	19,955	21,319	18,070
West South Central	123,775	134,962	142,282	153,907	187,977	190,667	209,820	215,008
Arkansas	6,831	7,827	7,758	8,272	7,636	8,185	10,236	8,067
Louisiana	16,508	19,715	21,235	23,246	32,544	29,467	25,381	25,413
Oklahoma	10,320	10,958	11,453	11,804	14,036	13,320	14,764	16,754
Texas	90,116	96,462	101,836	110,585	133,761	139,695	159,439	164,774

See explanatory information and SOURCE at end of table.

**Table B-26. Industry-financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 2 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Mountain	88,619	96,006	86,099	89,164	91,848	99,428	98,535	105,308
Arizona	18,889	21,746	23,238	17,099	18,584	22,125	22,242	28,519
Colorado	23,651	30,340	20,605	23,695	23,756	26,785	27,151	23,754
Idaho	7,286	10,041	7,408	9,957	8,883	7,551	3,818	5,020
Montana	3,234	3,965	5,825	7,000	8,470	8,437	8,326	9,997
Nevada	5,245	7,054	6,941	8,042	5,464	5,355	5,196	5,532
New Mexico	18,743	13,611	10,696	11,840	9,915	12,559	12,866	11,692
Utah	9,303	8,064	9,456	9,445	14,550	13,502	15,730	17,853
Wyoming	2,268	1,185	1,930	2,086	2,226	3,114	3,206	2,941
Pacific	146,357	156,721	177,062	206,097	250,824	288,627	327,465	390,575
Alaska	4,751	4,441	5,470	9,965	12,769	16,081	19,340	19,686
California	99,371	105,824	120,171	140,095	181,582	215,896	236,438	283,082
Hawaii	151	434	299	8,088	5,944	10,949	13,021	11,158
Oregon	8,578	9,672	11,693	8,620	9,647	4,173	4,189	14,665
Washington	33,506	36,350	39,429	39,329	40,882	41,528	54,477	61,984
Outlying Areas	505	1,241	1,948	2,294	2,625	5,339	3,381	4,925

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-27. Institutionally financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 1 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Total	3,540,677	3,780,184	3,997,079	4,116,703	4,639,854	4,946,184	5,349,213	5,870,744
New England	226,089	235,579	224,431	258,234	265,511	229,806	222,829	248,741
Connecticut	80,829	79,487	78,243	78,954	76,391	66,868	66,257	73,580
Maine	9,674	10,907	9,357	12,172	10,526	10,810	16,326	19,674
Massachusetts	92,084	96,865	92,039	120,282	125,526	96,639	81,774	92,035
New Hampshire	11,768	16,859	12,948	11,549	15,058	17,439	18,102	22,924
Rhode Island	23,481	23,965	22,325	24,617	26,545	26,130	28,474	30,289
Vermont	8,253	7,496	9,519	10,660	11,465	11,920	11,896	10,239
Middle Atlantic	448,006	479,281	516,298	548,498	570,307	631,735	668,240	729,358
New Jersey	116,307	116,838	133,955	141,839	139,540	150,482	162,464	159,774
New York	182,403	204,359	218,047	238,611	247,932	283,568	318,344	368,764
Pennsylvania	149,296	158,084	164,296	168,048	182,835	197,685	187,432	200,820
East North Central	559,002	637,624	688,567	742,270	783,781	857,957	956,111	1,050,109
Illinois	178,026	185,036	194,776	211,427	219,390	250,506	270,777	278,482
Indiana	65,991	83,841	101,283	108,023	113,903	126,098	149,140	178,533
Michigan	172,114	179,925	192,604	199,102	208,882	220,595	228,315	238,692
Ohio	89,146	103,365	107,789	130,000	143,733	151,197	148,629	179,333
Wisconsin	53,725	85,457	92,115	93,718	97,873	109,561	159,250	175,069
West North Central	331,398	332,393	343,252	346,122	381,101	392,331	469,922	507,066
Iowa	80,919	77,371	77,793	80,221	83,880	88,591	90,260	103,574
Kansas	44,215	53,884	52,517	52,546	56,752	56,206	58,179	69,864
Minnesota	64,860	46,551	46,255	46,759	53,751	55,541	61,591	70,330
Missouri	78,490	87,905	92,974	91,496	108,016	108,237	126,987	129,688
Nebraska	37,179	40,842	46,329	44,096	50,105	55,018	102,726	101,134
North Dakota	23,595	23,224	25,043	27,980	25,554	26,091	27,782	28,651
South Dakota	2,140	2,616	2,341	3,024	3,043	2,647	2,397	3,825
South Atlantic	646,209	652,913	740,855	721,804	881,208	898,476	994,193	1,106,401
Delaware	13,937	13,946	14,560	13,074	20,125	19,222	19,401	19,430
District of Columbia	18,346	19,322	19,937	21,321	24,092	25,865	12,398	15,088
Florida	119,937	123,158	180,109	160,422	181,848	183,378	197,382	219,176
Georgia	167,509	200,733	227,244	223,909	252,398	246,047	258,131	298,827
Maryland	125,118	94,134	103,679	112,634	132,531	142,535	150,686	180,378
North Carolina	64,747	64,328	63,275	65,450	107,071	94,068	140,443	145,654
South Carolina	52,850	54,049	53,994	48,596	65,914	84,576	100,824	100,941
Virginia	69,633	68,602	64,587	61,948	74,039	76,688	90,626	103,113
West Virginia	14,132	14,641	13,470	14,450	23,190	26,097	24,302	23,794
East South Central	135,481	172,309	180,071	188,310	204,284	249,450	278,165	321,013
Alabama	48,358	78,018	79,861	77,312	84,747	82,108	78,983	87,899
Kentucky	42,013	40,965	43,883	49,194	53,070	83,214	106,967	119,395
Mississippi	10,960	12,414	11,211	11,600	13,623	30,603	33,272	46,603
Tennessee	34,150	40,912	45,116	50,204	52,844	53,525	58,943	67,116
West South Central	437,673	468,798	463,471	413,543	426,849	451,247	482,487	518,971
Arkansas	15,039	17,495	19,987	21,459	24,261	25,542	14,856	20,321
Louisiana	61,267	66,688	69,687	69,212	78,310	78,858	93,897	93,552
Oklahoma	67,338	68,401	79,107	72,669	52,462	59,439	76,192	87,952
Texas	294,029	316,214	294,690	250,203	271,816	287,408	297,542	317,146

See explanatory information and SOURCE at end of table.

**Table B-27. Institutionally financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 2 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Mountain	271,634	299,709	316,861	334,312	354,839	377,463	373,547	378,992
Arizona	112,596	113,476	126,380	137,834	137,165	146,586	150,366	158,810
Colorado	41,797	54,001	52,080	50,995	50,422	68,065	59,833	52,754
Idaho	11,068	17,219	9,350	14,436	14,258	15,447	16,208	16,882
Montana	14,011	14,902	20,172	21,133	15,684	13,435	15,528	15,658
Nevada	25,193	22,603	24,798	25,924	30,749	24,314	25,484	29,227
New Mexico	28,507	30,561	38,562	39,092	42,442	45,780	39,260	41,740
Utah	27,825	30,278	28,065	26,618	40,376	42,561	46,220	43,818
Wyoming	10,637	16,669	17,454	18,280	23,743	21,275	20,648	20,103
Pacific	474,868	491,060	514,853	556,925	764,804	844,901	892,142	997,979
Alaska	17,412	26,253	23,850	25,217	26,082	24,340	30,908	32,937
California	367,837	364,732	372,600	409,980	620,168	694,912	723,232	814,151
Hawaii	3,109	3,290	3,738	4,386	13,297	13,170	15,260	19,249
Oregon	34,209	37,826	37,453	40,769	35,824	37,747	45,670	32,239
Washington	52,301	58,959	77,212	76,573	69,433	74,732	77,072	99,403
Outlying Areas	10,317	10,518	8,420	6,685	7,170	12,818	11,577	12,114

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-28. All other sources of financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

Page 1 of 2

Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Total	1,467,189	1,554,478	1,593,349	1,595,548	1,685,888	1,828,611	1,962,756	2,221,504
New England	177,918	185,716	177,518	147,499	152,547	172,196	198,304	212,237
Connecticut	34,899	33,781	32,008	31,931	34,775	34,801	39,399	44,868
Maine	418	404	592	493	392	398	2,250	1,964
Massachusetts	128,318	135,717	127,388	96,314	96,289	113,116	133,115	143,666
New Hampshire	9,292	10,700	12,112	12,908	12,295	14,409	13,806	13,824
Rhode Island	2,174	1,980	1,725	2,130	2,859	3,181	3,496	3,599
Vermont	2,817	3,134	3,693	3,723	5,937	6,291	6,238	4,316
Middle Atlantic	238,999	277,797	311,472	298,510	315,065	338,607	348,829	415,451
New Jersey	28,198	29,251	33,434	29,016	34,968	39,171	43,194	73,704
New York	149,800	188,603	212,504	202,693	210,315	230,997	220,953	233,143
Pennsylvania	61,001	59,943	65,534	66,801	69,782	68,439	84,682	108,604
East North Central	264,475	264,363	250,734	258,546	272,132	276,367	280,113	306,065
Illinois	64,276	69,657	64,082	62,603	75,453	79,767	82,245	80,293
Indiana	25,990	18,464	19,521	19,798	20,122	19,483	17,452	20,438
Michigan	63,634	60,659	57,480	76,444	71,771	68,629	62,507	69,744
Ohio	62,411	62,613	58,828	46,249	49,219	49,335	57,724	68,276
Wisconsin	48,164	52,970	50,823	53,452	55,567	59,153	60,185	67,314
West North Central	83,925	80,113	85,346	90,975	99,547	115,457	122,779	143,003
Iowa	16,695	14,946	14,686	18,729	18,893	18,327	13,747	21,439
Kansas	6,086	7,873	8,166	7,819	8,809	16,000	16,592	14,848
Minnesota	21,135	20,826	22,544	23,990	34,525	28,943	29,056	32,358
Missouri	24,666	30,310	33,343	32,323	28,801	42,259	45,173	52,178
Nebraska	12,907	3,798	3,567	4,460	5,209	5,253	13,532	16,686
North Dakota	1,652	1,466	1,853	2,150	1,826	2,734	2,417	2,595
South Dakota	784	894	1,187	1,504	1,484	1,941	2,262	2,899
South Atlantic	167,022	186,566	200,189	212,732	241,033	244,791	249,338	301,183
Delaware	3,953	4,241	5,424	6,197	6,601	8,527	10,030	9,776
District of Columbia	15,176	15,432	14,643	17,018	16,433	18,999	19,342	23,316
Florida	28,691	31,173	29,065	32,174	33,957	39,805	38,861	40,206
Georgia	15,079	20,208	24,726	26,857	24,413	30,080	36,279	38,673
Maryland	33,575	41,395	52,549	56,178	79,984	68,461	67,970	103,630
North Carolina	19,628	28,476	22,026	31,285	29,830	34,880	26,002	30,317
South Carolina	22,005	17,921	19,388	17,705	20,820	10,572	14,204	12,022
Virginia	25,665	24,231	28,086	21,493	24,302	29,542	32,406	38,592
West Virginia	3,250	3,489	4,282	3,825	4,693	3,925	4,244	4,651
East South Central	50,490	53,027	52,207	48,036	58,172	68,449	83,841	95,047
Alabama	20,800	18,398	21,540	15,634	18,025	29,858	42,073	36,184
Kentucky	4,925	4,814	4,874	3,273	7,292	8,743	8,748	16,924
Mississippi	8,404	11,219	6,291	10,283	10,135	1,931	719	3,065
Tennessee	16,361	18,596	19,502	18,846	22,720	27,917	32,301	38,874
West South Central	202,297	211,015	208,386	228,069	203,532	220,230	252,837	271,103
Arkansas	3,442	3,244	3,262	5,285	6,401	7,154	7,120	7,078
Louisiana	17,199	18,083	19,497	17,841	16,929	19,563	19,910	32,549
Oklahoma	16,436	16,898	16,608	13,864	13,161	14,773	16,674	11,637
Texas	165,220	172,790	169,019	191,079	167,041	178,740	209,133	219,839

See explanatory information and SOURCE at end of table.

**Table B-28. All other sources of financed R&D expenditures at doctorate-granting institutions,
by geographic division and State: fiscal years 1993-2000**

[Dollars in thousands]

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Division and State	1993	1994	1995	1996	1997	1998	1999	2000
Mountain	72,239	79,547	69,149	67,013	70,404	73,017	81,323	86,254
Arizona	23,100	18,304	12,043	13,037	12,706	15,306	15,783	18,289
Colorado	25,500	35,332	35,456	33,598	36,910	35,270	32,966	14,678
Idaho	844	592	1,538	447	452	798	7,001	3,450
Montana	407	509	586	694	808	1,039	1,416	3,554
Nevada	1,129	1,280	995	753	3,773	4,190	3,976	4,544
New Mexico	12,442	13,807	7,283	8,310	7,200	5,266	4,850	5,792
Utah	7,852	8,048	8,660	8,746	7,764	10,209	13,827	33,923
Wyoming	965	1,675	2,588	1,428	791	939	1,504	2,024
Pacific	207,248	215,055	237,196	243,511	271,615	317,423	344,550	390,581
Alaska	5	4	4	6	1	0	17	5
California	170,992	177,432	197,545	206,954	237,157	272,264	307,903	354,011
Hawaii	2,240	1,759	3,365	0	5	0	0	0
Oregon	18,245	20,545	21,041	20,198	17,767	27,355	16,518	16,145
Washington	15,766	15,315	15,241	16,353	16,685	17,804	20,112	20,420
Outlying Areas	2,576	1,279	1,152	657	1,841	2,074	842	580

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
United States, total	30,062,371	17,493,473	2,204,263	2,178,252	5,924,491	2,261,892
Public, total	20,517,436	10,637,880	2,009,336	1,446,530	4,992,452	1,431,238
Private, total	9,544,935	6,855,593	194,927	731,722	932,039	830,654
Alabama, total	428,122	275,912	6,052	19,581	88,167	38,410
Public, total	418,662	268,771	6,052	19,581	88,074	36,184
Alabama A&M University	8,238	7,056	165	141	876	0
Alabama State University	1,365e	1,190e	0e	0e	175e	0e
Auburn University	92,612	31,515	221	3,917	52,734	4,225
U of Alabama Birmingham	233,461	175,309	539	7,752	17,902	31,959
U of Alabama Huntsville	41,274	25,939	1,528	4,532	9,275	0
U of South Alabama	9,865	8,276	291	1,298	0	0
University of Alabama, The	31,847	19,486	3,308	1,941	7,112	0
Private, total	9,460	7,141	0	0	93	2,226
Oakwood College	567e	447e	0e	0e	93e	27e
Selma University	0	0	0	0	0	0
Talladega College	0	0	0	0	0	0
Tuskegee University	8,893	6,694	0	0	0	2,199
Alaska, total	107,417	49,241	3,469	20,073	34,328	306
Public, total	107,417	49,241	3,469	20,073	34,328	306
U of Alaska Anchorage	4,782e	2,537e	187e	375e	1,382e	301e
U of Alaska Fairbanks	102,500	46,605	3,267	19,686	32,937	5
U of Alaska, SE	135	99	15	12	9	0
Arizona, total	465,777	244,938	15,221	28,519	158,810	18,289
Public, total	465,777	244,938	15,221	28,519	158,810	18,289
Arizona State University	108,117	49,935	4,398	4,700	45,051	4,033
Northern Arizona U	12,570	7,842	1,852	1,407	1,469	0
University of Arizona	345,090	187,161	8,971	22,412	112,290	14,256
Arkansas, total	130,894	58,302	35,076	8,121	22,110	7,285
Public, total	130,822	58,230	35,076	8,121	22,110	7,285
Arkansas State University	1,203	267	749	0	187	0
Arkansas Tech Univ	419	92	31	33	263	0
U Arkansas Pine Bluff	4,151 i	2,911 i	0 i	0 i	1,214 i	26 i
U of AR at Little Rock	3,400e	3,400e	0 i	0 i	0 i	0 i
U of Arkansas Main	70,817	20,778	32,860	4,746	9,155	3,278
U of Arkansas Medical Sci	49,074	29,962	1,012	3,321	10,979	3,800
U of Central Arkansas	1,758	820	424	21	312	181
Private, total	72	72	0	0	0	0
Philander Smith College	72e	72e	0e	0e	0e	0e
California, total	4,053,042	2,335,093	235,796	294,990	820,953	366,210
Public, total	3,000,360	1,533,020	207,121	191,698	729,455	339,066
CA St Poly U Pomona	1,703	1,703	0	0	0	0
CA St U Bakersfield	3,703	459	798 i	399 i	563 i	1,484 i
CA St U Chico	2,390	450	1,310	630	0	0
CA St U Dominguez Hills	998	909	0	22	67	0
CA St U Fresno	11,598	1,823	4,500	3,000	450	1,825
CA St U Fullerton	1,712 i	1,148 i	160 i	104 i	182 i	118 i
CA St U Long Beach	32,551	12,964	13,457	673	3,604	1,853
CA St U Los Angeles	9,062	8,344	225	142	0	351
CA St U Northridge	6,190	3,182	578 i	66 i	1,267 i	1,097 i
CA St U San Bernardino	1,797	880	546	288	62	21
Cal Poly St U	12,133	7,605	1,563	894	513	1,558
Humboldt State University	5,557e	2,629e	852e	869e	450e	757e
Naval Postgrad School	37,502 i	36,476 i	234 i	316 i	0 i	476 i
San Diego St University	55,002	22,802	7,290	1,811	17,811	5,288

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 2 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
California, continued:						
Public, continued:						
San Francisco State U	5,223e	4,561e	166i	496i	0i	0i
San Jose State University	21,005e	11,825e	2,537e	4,324e	1,655e	664e
Sonoma State University	150	33	63	0	48	6
U CA Berkeley	518,514	208,338	65,354	27,851	168,025	48,946
U CA Davis	364,789	141,740	31,063	17,891	144,073	30,022
U CA Irvine	158,437	88,274	5,259	18,615	27,168	19,121
U CA Los Angeles	530,826	274,162	17,864	33,427	118,456	86,917
U CA Riverside	83,580	21,085	3,569	3,345	46,451	9,130
U CA San Diego	518,559	326,037	23,691	34,541	87,632	46,658
U CA San Francisco	443,013	248,878	22,435	34,964	71,199	65,537
U CA Santa Barbara	118,154	80,754	2,375	5,499	18,973	10,553
U CA Santa Cruz	56,212	25,959	1,232	1,531	20,806	6,684
Private, total	1,052,682	802,073	28,675	103,292	91,498	27,144
Azusa Pacific U	0e	0e	0e	0e	0e	0e
Biola University	0	0	0	0	0	0
C R Drew U of Med & Sci	31,045	21,969	7,973	1,103	0	0
CA Inst of Integral Stu	0	0	0	0	0	0
CA Sch Prof Psy S Diego	1,020e	517e	157e	42e	65e	239e
CA Sch Prof Psy-Alameda	498e	25e	461e	0e	4e	8e
CA Sch Prof Psy-Fresno	1,034	773	174	0	62	25
CA Sch Prof Psy-L.A.	0	0	0	0	0	0
California Inst of Tech	222,666	176,177	2,697	29,619	14,173	0
Chapman U	373	73	0	0	244	56
Claremont Graduate Sch	2,416	798	213	202	564	639
Fuller Theological Sem	80e	80e	0e	0e	0e	0e
Golden Gate University	0	0	0	0	0	0
Harvey Mudd College	5,699e	1,032e	83i	406i	499i	3,679i
Loma Linda University	24,369	18,811	0	4,181	1,263	114
Occidental College	826	545	0	225	56	0
Pepperdine University	0	0	0	0	0	0
Pitzer College	383	299	0	0	60	24
Point Loma Nazarene Col	165	83	0	0	0	82
Pomona College	1,791	678	7	43	586	477
Santa Clara University	2,509i	574i	0i	626i	1,236i	73i
Stanford University	454,780	367,127	5,710	41,269	19,286	21,388
U of Southern California	300,445	210,872	10,991	25,298	53,284	0
US International U	0	0	0	0	0	0
University San Francisco	700	400	200	0	100	0
University of San Diego	545	422	0	31	0	92
University of the Pacific	1,020	546	9	218	0	247
Western U of Hlth Sci	318i	272i	0i	29i	16i	1i
Colorado, total	544,204	427,495	24,000	24,031	53,711	14,967
Public, total	534,400	419,842	23,932	23,713	52,696	14,217
Colorado School of Mines	21,795	11,995	1,550	7,870	380	0
Colorado State University	152,279	101,429	19,695	6,519	24,205	431
Fort Lewis College	191	139	26	26	0	0
U of Colorado HSC	141,203	119,120	111	5,093	7,863	9,016
U of Colorado, Boulder	207,973	178,777	1,349	3,478	19,841	4,528
U of Colorado, Col Spgs	1,251i	470i	85i	471i	224i	1i
U of Colorado, Denver	3,101	2,027	825	249	0	0
U of Northern Colorado	1,128	982	5	7	43	91
U of Southern Colorado	724	370	233	0	11	110
U.S. Air Force Academy	4,551	4,505	6	0	0	40
W State Coll Colorado	204	28	47	0	129	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Colorado, continued:						
Private, total	9,804	7,653	68	318	1,015	750
Colorado College	1,213	145	0	251	817	0
Regis University	208	69	0	0	0	139
University of Denver	8,383	7,439	68	67	198	611
Connecticut, total	468,435	304,155	15,539	28,327	74,534	45,880
Public, total	162,303	66,901	14,472	13,557	54,034	13,339
Central Connecticut St U	218	137	2	0	32	47
Southern Connecticut St U	596	215	364	17	0	0
US Coast Guard Academy	405	405	0	0	0	0
University of Connecticut	161,084	66,144	14,106	13,540	54,002	13,292
Private, total	306,132	237,254	1,067	14,770	20,500	32,541
Connecticut College	423 <i>i</i>	0 <i>i</i>	1 <i>i</i>	9 <i>i</i>	15 <i>i</i>	398 <i>i</i>
Fairfield University	1,061	203	6	76	776	0
Trinity College	1,010	326	0	96	98	490
University of Hartford	1,061	629	106	192	134	0
University of New Haven	198 <i>e</i>	19 <i>e</i>	42 <i>e</i>	27 <i>e</i>	33 <i>e</i>	77 <i>e</i>
Wesleyan University	5,673	4,058	10	15	1,140	450
Yale University	296,706	232,019	902	14,355	18,304	31,126
Delaware, total	78,126	40,768	4,142	3,878	19,562	9,776
Public, total	78,126	40,768	4,142	3,878	19,562	9,776
Delaware State University	3,415	3,052	110	121	132	0
University of Delaware	74,711	37,716	4,032	3,757	19,430	9,776
District of Columbia, total	245,828	186,632	3,826	16,286	15,480	23,604
Public, total	2,737	1,629	428	0	392	288
University of DC	2,737	1,629	428	0	392	288
Private, total	243,091	185,003	3,398	16,286	15,088	23,316
American University	2,245	1,886	0	34	230	95
Catholic U of America	9,329	7,680	27	363	904	355
Gallaudet University	1,752	1,682	70	0	0	0
George Washington U	69,300	49,627	2,649	4,220	4	12,800
Georgetown University	133,211	98,836	576	9,795	13,950	10,054
Howard University	27,254	25,292	76	1,874	0	12
Florida, total	851,932	408,826	103,167	78,906	220,827	40,206
Public, total	693,874	295,016	100,873	60,896	211,894	25,195
Florida A&M University	21,612	16,278	5,334	0	0	0
Florida Atlantic U	19,535	12,359	789	6,387	0	0
Florida International U	34,649	20,296	8,600	1,843	3,477	433
Florida State University	105,095	56,830	4,172	693	40,170	3,230
U of Central Florida	47,646	13,801	6,734	5,833	21,278	0
U of South Florida	145,397	50,557	6,978	10,873	64,713	12,276
U of West Florida	6,248	4,521	761	388	578	0
University of Florida	313,692	120,374	67,505	34,879	81,678	9,256
Private, total	158,058	113,810	2,294	18,010	8,933	15,011
Bethune Cookman College	586	586	0	0	0	0
Embry-Riddle Aero Univ	2,700 <i>e</i>	1,551 <i>e</i>	14 <i>i</i>	62 <i>i</i>	1,073 <i>i</i>	0 <i>i</i>
Florida Inst of Tech	6,058	2,980	421	920	1,676	61
Nova Southeastern U	2,919	2,060	413	0	6	440
University of Miami	145,795	106,633	1,446	17,028	6,178	14,510
Georgia, total	926,749	417,664	76,857	94,341	299,214	38,673
Public, total	653,097	222,397	72,244	82,424	268,818	7,214
Albany State University	1,393	840	164	389	0	0
Fort Valley State U	2,768	2,417	93	258	0	0
Georgia Institute of Tech	304,511	126,164	14,932	64,508	98,907	0
Georgia Southern U	944	944	0	0	0	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 4 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Georgia, continued:						
Public, continued:						
Georgia State University	36,600	12,090	5,666	784	14,659	3,401
Kennesaw State Univ	249	249	0	0	0	0
Medical Col of Georgia	45,596	15,210	736	3,609	23,988	2,053
Savannah State Univ	905	905	0	0	0	0
State U of West Georgia	1,655	900	0	600	155	0
University of Georgia	258,476	62,678	50,653	12,276	131,109	1,760
Private, total	273,652	195,267	4,613	11,917	30,396	31,459
Clark Atlanta University	16,891	16,170	12	190	89	430
Emory University	206,070	144,914	4,061	7,513	18,901	30,681
Inst of Paper Sci & Tech	10,533e	3,398e	296i	1,250i	5,241i	348i
Mercer University	18,138	11,350	31	1,405	5,352	0
Morehouse College	2,853e	1,843e	0e	826e	184e	0e
Morehouse School of Med	16,889	15,419	212	677	581	0
Morris Brown College	116	116	0	0	0	0
Spelman College	2,082	1,978	0	56	48	0
Wesleyan Col (Macon)	80	79	1	0	0	0
Hawaii, total	161,300	95,419	35,474	11,158	19,249	0
Public, total	161,300	95,419	35,474	11,158	19,249	0
Univ of Hawaii at Manoa	161,300	95,419	35,474	11,158	19,249	0
Idaho, total	73,726	28,888	18,545	5,338	17,505	3,450
Public, total	73,726	28,888	18,545	5,338	17,505	3,450
Boise State University	3,480	2,151	388	318	623	0
Idaho State University	8,899	3,723	1,186	2,256	1,734	0
University of Idaho	61,347	23,014	16,971	2,764	15,148	3,450
Illinois, total	1,170,625	681,006	73,042	56,085	279,759	80,733
Public, total	629,526	319,294	64,939	28,455	180,751	36,087
Chicago State University	1,263	1,248	0	0	15	0
Eastern Illinois U	0e	0e	0e	0e	0e	0e
Illinois State University	4,434	2,108	1,727i	553i	46i	0i
Knox College	254	254	0	0	0	0
Northeastern Illinois U	184	24	56	11	74	19
Northern Illinois U	7,431	3,603	390	1,050	2,388	0
S Illinois U Carbondale	36,354	10,130	8,047	2,355	12,231	3,591
S Illinois U Edwardsville	1,344	200	330	531	283	0
U of IL Chicago	195,839	101,943	6,916	11,010	60,691	15,279
U of IL Springfield	910	182	355	12	263	98
U of IL Urbana-Champaign	373,024	193,490	45,850	12,693	104,241	16,750
Western Illinois U	8,489	6,112	1,268	240	519	350
Private, total	541,099	361,712	8,103	27,630	99,008	44,646
Bradley University	1,371	146	16	951	258	0
DePaul University	863	478	12	290	83	0
Finch U Hlth Sci Chicago	7,587	5,117	0	90	1,117	1,263
Illinois Inst of Tech	13,734	10,926	391	1,549	868	0
Lake Forest College	399	200	0	0	128	71
Loyola U of Chicago	30,034	20,695	330	1,484	4,565	2,960
Midwestern University	2,470	467	3	182	1,561	257
Northwestern University	245,774	150,238	3,565	12,860	56,937	22,174
Rush University	68,189	32,573	508	8,762	22,700	3,646
University of Chicago	170,678	140,872	3,278	1,462	10,791	14,275

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 5 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Indiana, total	509,141	228,768	34,377	42,343	178,613	25,040
Public, total	468,898	200,711	34,267	39,730	173,752	20,438
Ball State University	2,429	873	93	421	1,024	18
Indiana State University	4,196	251	17	3,928	0	0
Indiana University	227,737	107,577	3,002	5,384	91,578	20,196
Purdue University	234,536	92,010	31,155	29,997	81,150	224
Private, total	40,243	28,057	110	2,613	4,861	4,602
Rose-Hulman Inst of Tech	4,994	420	8	334	0	4,232
University of Notre Dame	34,524	27,362	102	2,279	4,781	0
Valparaiso University	725	275	0	0	80	370
Iowa, total	418,263	203,437	56,351	32,473	104,472	21,530
Public, total	414,246	201,118	56,296	32,355	103,058	21,419
Iowa State University	175,558	59,976	49,627	15,075	47,272	3,608
U of Iowa	236,944	140,764	6,163	17,262	54,967	17,788
U of Northern Iowa	1,744	378	506	18	819	23
Private, total	4,017	2,319	55	118	1,414	111
Coe College	0i	0i	0i	0i	0i	0i
Des Moines U Ost Med Ctr	417	134	48	118	117	0
Drake University	468	198	7	0	172	91
Grinnell College	1,500	774	0	0	726	0
Maharishi U of Mgmt	1,632	1,213	0	0	399	20
Kansas, total	258,336	105,610	44,396	23,410	69,872	15,048
Public, total	258,336	105,610	44,396	23,410	69,872	15,048
Kansas State University	91,790	31,185	36,300	4,057	17,294	2,954
Pittsburg State U	1,663	247	1,067	141	8	200
University of Kansas	148,670	68,950	5,486	15,712	46,754	11,768
Wichita State University	16,213	5,228	1,543	3,500	5,816	126
Kentucky, total	274,238	96,288	21,849	17,932	121,232	16,937
Public, total	273,776	95,847	21,849	17,932	121,232	16,916
Eastern Kentucky U	640	192	98	17	333	0
Kentucky State University	713i	703i	10i	0i	0i	0i
Murray State University	2,084	629	566	55	834	0
Northern Kentucky U	115	41	4	0	57	13
Private, total	462	441	0	0	0	21
Spalding University	462	441	0	0	0	21
Louisiana, total	399,411	169,895	75,626	25,670	95,601	32,619
Public, total	305,937	114,459	73,132	15,330	77,696	25,320
Grambling State U	2,264	2,200	59	0	5	0
Louisiana St U, A&M Colle	172,294	44,563	64,655	7,795	45,735	9,546
Louisiana St U, Hlth Sci	55,793	28,287	1,008	4,819	15,092	6,587
Louisiana St U, Shrevepor	126	42	42	35	0	7
Louisiana Tech University	928	631	0	0	0	297
McNeese State University	639	512	36	0	91	0
Nicholls State U	504	14	168	99	223	0
Southeastern Louisiana U	1,057	629	221	14	193	0
Southern U A&M All Camp	8,302	6,418	238	109	1,537	0
Southern U New Orleans	183	60e	60e	0	0	63e
U of LA Lafayette	32,692	12,164	2,360	0	9,458	8,710
U of LA Monroe, The	8,135e	2,824e	1,401e	0e	3,910e	0e
University of New Orleans	23,020	16,115	2,884	2,459	1,452	110
Private, total	93,474	55,436	2,494	10,340	17,905	7,299
Dillard Univers	264	182	82	0	0	0
Tulane University	89,785	52,080	2,371	10,340	17,703	7,291
Xavier University of LA	3,425	3,174	41	0	202	8

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Maine, total	57,753	25,309	6,445	2,994	20,555	2,450
Public, total	56,187	24,535	6,445	2,899	20,249	2,059
U of Maine	54,821	24,412	5,872	2,899	19,674	1,964
U of Southern Maine	1,366e	123e	573e	0e	575e	95e
Private, total	1,566	774	0	95	306	391
Bates College	598	463	0	16	41	78
Bowdoin College	576	228	0	59	93	196
Colby College	392	83	0	20	172	117
Maryland, total	1,507,549	1,090,445	82,069	50,154	181,039	103,842
Public, total	604,669	295,666	79,675	34,341	133,953	61,034
Bowie State University	2,675e	2,360e	0e	119e	0e	196e
Coppin State College	0	0	0	0	0	0
Morgan State University	4,371	4,371	0	0	0	0
St Mary's Col of MD	447	378	0	0	69	0
Towson University	2,138	846	530	170	592	0
U MD Baltimore County	26,044	20,244	1,156	2,159	2,278	207
U MD Biotechnology Inst	29,946	11,157	1,483	915	14,132	2,259
U MD Ctr for Environ Sci	31,605	10,805	3,873	58	14,367	2,502
U MD Eastern Shore	3,895	3,895	0	0	0	0
U MD at College Park	252,429	136,605	48,902	1,028	53,919	11,975
U of MD Baltimore	224,346	91,212	23,731	29,892	35,632	43,879
US Naval Academy	2,786	2,770	0	0	0	16
Unif Svcs U of Hlth Sci	23,987	11,023	0	0	12,964	0
Private, total	902,880	794,779	2,394	15,813	47,086	42,808
Johns Hopkins U	901,156	793,266	2,391	15,751	46,940	42,808
Loyola College	1,724	1,513	3	62	146	0
Massachusetts, total	1,485,792	1,064,468	40,305	138,667	94,322	148,030
Public, total	233,547	125,707	33,595	17,013	39,714	17,518
Bridgewater State College	585	287	7	155	135	1
Fitchburg State College	26	0	0	0	26	0
U MA Amherst	97,052	44,697	6,961	5,535	31,879	7,980
U MA Boston	12,058	3,378	1,211	0	4,371	3,098
U MA Dartmouth	6,905	3,228	1,343	652	1,677	5
U MA Lowell	19,334	9,905	599	7,204	1,626	0
U MA Worcester	97,587	64,212	23,474	3,467	0	6,434
Private, total	1,252,245	938,761	6,710	121,654	54,608	130,512
Amherst College	1,859	999	0	133	727	0
Boston College	27,767	16,673	1,706	1,487	4,936	2,965
Boston University	154,029	133,730	1,281	8,574	0	10,444
Brandeis University	47,658	26,444	88	0	5,697	15,429
Clark University	2,908	1,652	36	16	0	1,204
College of the Holy Cross	371	142	0	46	58	125
Hampshire College	2,658	872	20	0	251	1,515
Harvard University	341,810	281,699	1,295	12,189	0	46,627
MA Col Phar Allied Hlth	96i	0i	0i	96i	0i	0i
MA Institute of Tech	426,299	306,668	197	83,082	9,896	26,456
Mount Holyoke College	1,835	1,135	34	0	191	475
New England Col Opt	1,228	950	0	245	0	33
Northeastern University	35,340	26,916	162	3,567	4,143	552
Simmons College	912	74	0	783	55	0
Smith College	2,582	774	3	1,747	58	0
Tufts University	105,783	64,677	1,475	8,118	20,753	10,760
Wellesley College	4,943i	2,304i	31i	27i	800i	1,781i
Wentworth Inst of Tech	452	452	0	0	0	0
Williams College	1,853e	1,345e	8i	22i	44i	434i
Woods Hole Oceanogr Inst	81,547	67,036	244	142	4,104	10,021
Worcester Polytech Inst	10,315	4,219	130	1,380	2,895	1,691

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Michigan, total	995,756	553,119	63,226	66,955	242,336	70,120
Public, total	989,986	551,455	62,922	64,920	241,030	69,659
Central Michigan U	755e	142e	441e	153e	19e	0e
Eastern Michigan U	4,118	1,213	292	604	2,009	0
Ferris State University	15e	0e	10e	0e	0e	5e
Grand Valley State U	1,138	368	96	0	604	70
Michigan State University	227,734	97,112	41,739	11,230	70,185	7,468
Michigan Tech University	27,204	16,650	870	3,834	5,046	804
Oakland University	6,422e	3,033e	420e	1,002e	1,716e	251e
University of Michigan	551,556	364,033	4,561	35,515	108,532	38,915
Wayne State University	156,814	64,320	12,366	10,932	49,825	19,371
Western Michigan U	14,230	4,584	2,127	1,650	3,094	2,775
Private, total	5,770	1,664	304	2,035	1,306	461
Andrews University	444	87	0	0	202	155
Calvin College	1,191	270	98	230	538	55
Hope College	922	602	0	0	69	251
Kettering University	625	270	37	318	0	0
Lawrence Tech Univ	821	121	66	210	424	0
U of Detroit Mercy	1,767	314	103	1,277	73	0
Minnesota, total	416,411	233,018	52,659	26,859	71,236	32,639
Public, total	413,922	231,120	52,624	26,812	70,840	32,526
Minnesota State, Mankato	607	175	111	195	126	0
St. Cloud State Univ	1,935e	987e	171e	225e	384e	168e
University of Minnesota	411,380	229,958	52,342	26,392	70,330	32,358
Private, total	2,489	1,898	35	47	396	113
Augsburg College	337	337	0	0	0	0
Carleton College	1,245	760	1	47	338	99
Gustavus Adolphus Col	143	85	0	0	58	0
Macalester College	220i	186i	34i	0i	0i	0i
St Olaf College	544	530	0	0	0	14
Mississippi, total	217,064	117,168	38,833	10,973	47,025	3,065
Public, total	216,031	116,557	38,833	10,973	46,603	3,065
Alcorn State University	8,034	8,034	0	0	0	0
Jackson State University	12,027	10,690	0	0	1,337	0
Mississippi State U	132,503	53,808	30,317	7,955	40,423	0
Mississippi Valley St U	834	834	0	0	0	0
U Mississippi, All Camp	44,927	28,107	7,488	2,034	4,233	3,065
U Southern Mississippi	17,706	15,084	1,028	984	610	0
Private, total	1,033	611	0	0	422	0
Rust College	138	138	0	0	0	0
Tougaloo College	895	473	0	0	422	0
Missouri, total	614,101	371,713	26,387	33,535	130,288	52,178
Public, total	219,390	90,570	19,091	7,767	88,772	13,190
Lincoln University	2,502	2,502	0	0	0	0
Southwest Missouri St U	1,324e	484e	751e	58e	31e	0e
Southeast Missouri St U	233	173	15	30	15	0
Truman State University	738i	174i	2i	8i	554i	0i
U of Missouri Columbia	158,861	65,420	17,361	4,007	62,769	9,304
U of Missouri Kansas City	19,647	7,490	75	660	10,376	1,046
U of Missouri Rolla	25,968	9,804	322	2,543	10,892	2,407
U of Missouri St Louis	9,898	4,523	428	461	4,053	433
U of Missouri Sys Admn	219	0	137	0	82	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 8 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Missouri, continued:						
Private, total	394,711	281,143	7,296	25,768	41,516	38,988
Forest Inst of Prof Psy	0	0	0	0	0	0
Kirksville Col Osteo Med	816	542	0	0	235	39
Saint Louis University	31,002	26,453	263	3,018	580	688
U of Health Sci (MO)	677	0	77	59	541	0
Washington University	362,216	254,148	6,956	22,691	40,160	38,261
Montana, total	99,069	51,686	17,873	10,298	15,658	3,554
Public, total	99,069	51,686	17,873	10,298	15,658	3,554
MT Tech of the U of MT	4,155	2,744	1,110	301	0	0
Montana St U Bozeman	65,324	30,564	15,772	8,523	10,465	0
Univ of Montana, The	29,590	18,378	991	1,474	5,193	3,554
Nebraska, total	208,480	65,702	7,243	17,636	101,159	16,740
Public, total	192,639	60,161	6,260	11,552	98,039	16,627
U of Nebraska Med Ctr	51,547	19,878	1,568	5,486	15,360	9,255
U of Nebraska at Kearney	146	49	17	1	25	54
U of Nebraska at Lincoln	136,023	37,831	4,640	5,991	80,439	7,122
U of Nebraska at Omaha	4,923	2,403	35	74	2,215	196
Private, total	15,841	5,541	983	6,084	3,120	113
Creighton University	15,841	5,541	983	6,084	3,120	113
Nevada, total	106,340	60,005	7,032	5,532	29,227	4,544
Public, total	106,340	60,005	7,032	5,532	29,227	4,544
Desert Research Institute	25,877	19,923	1,890	844	807	2,413
U of Nevada Las Vegas	24,215	13,815	3,583	2,131	4,686	0
U of Nevada Reno	56,248	26,267	1,559	2,557	23,734	2,131
New Hampshire, total	150,982	95,290	9,747	9,197	22,924	13,824
Public, total	72,108	38,921	7,295	4,923	13,897	7,072
U of New Hampshire	72,108	38,921	7,295	4,923	13,897	7,072
Private, total	78,874	56,369	2,452	4,274	9,027	6,752
Dartmouth College	78,874	56,369	2,452	4,274	9,027	6,752
New Jersey, total	567,666	257,445	46,071	29,817	160,412	73,921
Public, total	414,510	172,556	41,187	20,188	122,988	57,591
Montclair State U	396	146	8	0	212	30
NJ Inst of Technology	47,895	17,381	8,187	1,344	1,603	19,380
Rutgers the State U NJ	225,268	79,711	25,762	8,843	86,261	24,691
U Med & Dent of NJ	140,951	75,318	7,230	10,001	34,912	13,490
Private, total	153,156	84,889	4,884	9,629	37,424	16,330
Fairleigh Dickinson U	158	24	48	9	37	40
Monmouth University	357e	178e	0e	175e	4e	0e
Princeton University	134,875	74,681	2,574	6,881	34,704	16,035
Rider University	891	225	48	9	422	187
Seton Hall University	996	996	0	0	0	0
Stevens Inst of Tech	15,879	8,785	2,214	2,555	2,257	68
New Mexico, total	246,258	175,028	11,965	11,692	41,740	5,833
Public, total	246,258	175,028	11,965	11,692	41,740	5,833
NM Inst Mining & Tech	23,636	8,652	2,133	6,373	6,187	291
New Mexico Highlands U	8,947	8,861	45	0	0	41
New Mexico State Univ	79,695	57,073	7,883	3,466	10,232	1,041
University of New Mexico	133,980	100,442	1,904	1,853	25,321	4,460

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
New York, total	2,290,812	1,475,423	102,684	100,995	374,797	236,913
Public, total	584,808	334,300	28,102	24,750	137,282	60,374
CUNY Baruch Col	375	87	49	133	106	0
CUNY Brooklyn College	6,342	2,866	551	225	1,739	961
CUNY City College	17,059	13,059	1,812	1,659	356	173
CUNY Col Staten Island	1,208	858	18	102	230	0
CUNY Grad Ctr	739	532	0	0	36	171
CUNY H H Lehman Col	1,632	1,444	0	0	130	58
CUNY Hunter College	15,047	8,650	241	281	4,182	1,693
CUNY John Jay Col Cr Just ..	1,274	779	48	204	0	243
CUNY Medger Evers Col	291	258	33	0	0	0
CUNY Queens College	3,827	2,604	20	968	235	0
CUNY York College	1,341	1,317	10	0	14	0
SUNY Col Env Sci Frstry	26,663	4,332	2,665	1,914	16,889	863
SUNY Col Old Westbury	1,310	1,067	0	0	243	0
SUNY Col at Brockport	722	344	283	0	67	28
SUNY Col at Buffalo	1,683	577	212	8	766	120
SUNY Col at Cortland	362	233	24	0	62	43
SUNY Col at Fredonia	194	120	22	1	16	35
SUNY Col at Geneseo	686	389	8	15	199	75
SUNY Col at Oswego	744	587	7	46	56	48
SUNY Col at Plattsburgh	996	610	62	28	248	48
SUNY Col of Optometry	1,001	698	0	10	172	121
SUNY Hlth Sci Ctr Brklyn	31,626	22,860	229	1,787	4,094	2,656
SUNY Purchase College	139	139	0	0	0	0
SUNY Upstate Med U	17,095	8,461	494	263	844	7,033
SUNY at Albany	82,792	62,059	7,521	622	5,944	6,646
SUNY at Binghamton	18,661	6,319	2,746	3,327	3,961	2,308
SUNY at Buffalo	187,692	96,410	6,692	5,590	48,502	30,498
SUNY at Stony Brook	163,307	96,641	4,355	7,567	48,191	6,553
Private, total	1,706,004	1,141,123	74,582	76,245	237,515	176,539
Adelphi University	169	73	0	82	6	8
Albany Col of Pharmacy	1,360	839	10	365	146	0
Albany Medical College	11,522	7,691	0	33	3,012	786
Alfred University	6,442	1,227	898	3,066	928	323
Barnard College	1,347	1,198	0	0	0	149
Clarkson University	7,751	3,837	720	1,447	1,747	0
Colgate University	1,664	917	0	0	464	283
Columbia U in City of NY	319,693	283,163	1,424	3,362	10,522	21,222
Cooper Union	284	94	39	114	37	0
Cornell University	410,393	229,872	40,177	12,697	85,090	42,557
Fordham University	3,584	2,101	200	0	125	1,158
Hamilton College	1,027	469	0	34	343	181
Hofstra University	787	649	0	125	0	13
Ithaca College	2,565	2,131	0	0	434	0
Long Island University	1,267	1,044	23	15	173	12
Manhattan College	509	293	100	116	0	0
Mt Sinai Sch Med	149,846	98,188	2,989	12,141	17,690	18,838
New School University	5,209	873	0	0	0	4,336
New York Inst Technology	390	114	37	18	167	54
New York Medical College	23,348	17,975	172	3,294	0	1,907
New York University	182,205	117,163	1,729	7,767	24,488	31,058
Pace University All Cmp	289	236	0	0	0	53
Polytechnic University	15,500	8,200	2,800	2,100	1,400	1,000
Rensselaer Polytech Inst	40,762	25,555	5,586	6,581	1,622	1,418
Rochester Inst of Tech	4,755	2,664	486	917	0	688
Rockefeller U, The	124,138	45,211	4,932	2,775	42,054	29,166
Skidmore College	314	67	0	163	84	0
St John's University (NY)	1,184	938	85	0	161	0
Syracuse University	39,468	29,630	1,830	1,210	1,703	5,095

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
New York, continued:						
Private, continued:						
Teachers Col, Columbia U	8,561	5,613	0	0	0	2,948
Union College (NY)	1,002	553	0	228	188	33
University of Rochester	197,335	150,593	10,300	17,595	6,944	11,903
Vassar College	1,716	321	45	0	0	1,350
Yeshiva University	139,618	101,631	0	0	37,987	0
North Carolina, total	1,040,017	577,437	113,764	169,979	147,364	31,473
Public, total						
Appalachian State U	595,354	306,739	106,897	45,015	129,440	7,263
East Carolina University	694	128	99	0	113	354
Elizabeth City State U	8,461	4,388	915	3,158	0	0
Fayetteville State U	1,558	1,558	0	0	0	0
507	507	0	0	0	0	0
NC A&T State University	13,400	11,187	97	235	1,790	91
NC State University	277,946	77,328	88,120	32,804	73,744	5,950
North Carolina Central U	808i	761i	0i	0i	0i	47i
U of NC Asheville	861	227	467	4	52	111
U of NC Chapel Hill	269,072	194,794	15,247	6,835	52,196	0
U of NC Charlotte	7,790	5,380	662	701	894	153
U of NC Greensboro	2,368e	1,535e	128e	430e	0e	275e
U of NC Wilmington	7,859	5,336	980	781	520	242
Western Carolina U	580	354	28	67	131	0
Winston Salem State U	3,450	3,256	154	0	0	40
Private, total	444,663	270,698	6,867	124,964	17,924	24,210
Bennett College	811i	583i	0i	48i	0i	180i
Duke University	356,625	204,180	6,083	109,791	16,752	19,819
Johnson C Smith U	287	250	8	0	0	29
Shaw University	100e	100e	0e	0e	0e	0e
Wake Forest University	86,840	65,585	776	15,125	1,172	4,182
North Dakota, total	67,406	29,343	2,417	4,400	28,651	2,595
Public, total						
North Dakota State U	67,406	29,343	2,417	4,400	28,651	2,595
50,063	15,463	2,391	2,044	28,159	2,006	
U of North Dakota	17,343	13,880	26	2,356	492	589
Ohio, total	918,500	498,967	83,520	87,570	179,722	68,721
Public, total						
Air Force Inst of Tech	681,312	313,691	79,303	76,038	161,029	51,251
Bowling Green State U	7,771	5,371	258	2	2,140	0
Central State University	3,454e	1,847e	88e	273e	1,246e	0e
Cleveland State U	560e	283e	0i	125i	38i	114i
10,214	3,318	3,792	969	1,991	144	
Kent State University	10,817	7,736	848	708	1,525	0
Med Col of Ohio	13,747	9,944	790	309	1,914	790
Miami University (OH)	10,674	2,674	661	1,663	5,555	121
N.E. Ohio Univ Col of Med	4,011	2,002	150	22	1,280	557
Ohio State University	361,399	132,219	61,978	57,075	79,583	30,544
Ohio University	23,767	11,695	1,841	1,591	7,375	1,265
University of Akron	19,495	7,081	1,153	3,090	6,356	1,815
University of Cincinnati	172,085	110,475	3,355	5,166	38,254	14,835
University of Toledo	13,694	6,312	669	2,013	4,089	611
Wright State University	29,092	12,543	3,648	2,968	9,478	455
Youngstown State Univ	532	191	72	64	205	0
Private, total	237,188	185,276	4,217	11,532	18,693	17,470
Antioch University	0	0	0	0	0	0
Case Western Reserve U	193,057	150,586	3,622	5,890	16,605	16,354

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Ohio, continued:						
Private, continued:						
College of Wooster	593	276	0	44	61	212
Denison University	328	238	0	0	41	49
John Carroll University	1,072e	1,072e	0e	0e	0e	0e
Oberlin College	691	691	0	0	0	0
Ohio Wesleyan University	255e	185e	0e	0e	0e	70e
U of Findlay	350	275	75	0	0	0
Union Institute, The	1,217	0	0	0	592	625
University of Dayton	39,345	31,717	520	5,598	1,350	160
Wilberforce University	280i	236i	0i	0i	44i	0i
Oklahoma, total	252,419	93,434	42,396	16,789	88,152	11,648
Public, total	242,249	87,874	41,442	13,610	87,675	11,648
Langston University	2,553	2,553	0	0	0	0
Oklahoma State University	88,285	24,770	25,770	4,076	33,002	667
U of Central Oklahoma	509	9	254	35	200	11
University of Oklahoma	150,902	60,542	15,418	9,499	54,473	10,970
Private, total	10,170	5,560	954	3,179	477	0
Oral Roberts University	116	62	0	0	54	0
University of Tulsa	10,054	5,498	954	3,179	423	0
Oregon, total	346,149	246,684	35,485	14,775	32,568	16,637
Public, total	324,966	231,826	34,550	13,302	30,149	15,139
Oregon Health Sciences U	131,486	109,165	1,956	12,430	0	7,935
Oregon State University	140,751	80,398	31,434	141	23,904	4,874
Portland State University	16,494	11,217	735	494	3,361	687
Southern Oregon Univ	301	253	15	0	32	1
University of Oregon	35,934	30,793	410	237	2,852	1,642
Private, total	21,183	14,858	935	1,473	2,419	1,498
Lewis and Clark College	529	392	0	75	62	0
OR Grad Inst Sci & Tech	18,856	13,743	865	1,315	2,082	851
Pacific University	264	20	0	48	40	156
Reed College	716	391	0	0	67	258
University of Portland	552	235	70	0	14	233
Willamette University	266	77	0	35	154	0
Pennsylvania, total	1,549,050	1,032,963	44,433	159,669	202,535	109,450
Public, total	777,818	494,747	22,074	79,311	147,019	34,667
East Stroudsburg U of PA	642	271	47	10	0	314
Indiana U of PA All Cmp	731	544	18	27	142	0
Kutztown U of PA	92	84	0	0	6	2
Lincoln University (PA)	709	709	0	0	0	0
Pennsylvania State U	427,575	226,074	18,739	64,393	112,161	6,208
Temple University	52,466	38,213	658	188	6,657	6,750
University of Pittsburgh	294,809	228,155	2,593	14,676	28,037	21,348
West Chester U of PA	794	697	19	17	16	45
Private, total	771,232	538,216	22,359	80,358	55,516	74,783
Allegheny College	318	88	0	0	68	162
Bryn Mawr College	2,791	978	305	9	1,338	161
Bucknell University	1,835	754	395	525	161	0
Carnegie Mellon U	137,980	91,191	3,223	21,136	0	22,430
Dickinson College	739	390	68	125	156	0
Drexel University	24,876	14,292	1,163	3,137	6,284	0
Duquesne University	2,662	1,902	140	407	39	174
Franklin & Marshall Coll	1,188	604	0	0	489	95
Haverford College	1,191	1,000	0	0	102	89

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 12 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Pennsylvania, continued:						
Private, continued:						
Juniata College	168	105	0	0	0	63
La Salle University	126	0	0	120	6	0
Lafayette College	665	331	47	12	275	0
Lehigh University	25,506	12,726	3,819	5,636	3,041	284
MCP Hahnemann University ..	41,670	27,379	7,990	2,967	157	3,177
PA College of Optometry	581	525	11	13	30	2
Phila Col Osteopathic Med	930	392	6	35	170	327
St. Joseph's Univ	975	797	0	66	112	0
Swarthmore College	996e	586e	0e	42e	294e	74e
Thomas Jefferson U	89,626	67,448	3,229	12,324	1,563	5,062
U of Pennsylvania	430,389	312,434	1,830	32,632	40,981	42,512
U of Sci in Philadelphia	532	222	3	307	0	0
Villanova University	5,280	4,035	130	865	250	0
Widener U All Campuses	208	37	0	0	0	171
Rhode Island, total	129,697	88,510	4,564	2,735	30,289	3,599
Public, total	48,135	38,538	4,464	1,194	3,501	438
U of Rhode Island	48,135	38,538	4,464	1,194	3,501	438
Private, total	81,562	49,972	100	1,541	26,788	3,161
Brown University	81,476	49,943	100	1,530	26,742	3,161
Providence College	86e	29e	0e	11e	46e	0e
South Carolina, total	294,184	131,043	31,743	15,478	102,793	13,127
Public, total	291,693	129,126	31,743	15,478	102,488	12,858
Clemson University	114,903	31,304	24,363	9,768	44,347	5,121
Coastal Carolina U	1,187	923	138	6	114	6
College of Charleston	3,047	1,607	78	2	1,154	206
Med U of South Carolina	65,243	41,432	2,245	2,880	15,300	3,386
South Carolina State U	2,915	1,988	24	0	279	624
U of South Carolina	104,398	51,872	4,895	2,822	41,294	3,515
Private, total	2,491	1,917	0	0	305	269
Benedict College	1,143	1,143	0	0	0	0
Claflin College	555e	250e	0e	0e	305e	0e
Furman University	793	524	0	0	0	269
South Dakota, total	27,269	13,659	6,525	361	3,825	2,899
Public, total	27,269	13,659	6,525	361	3,825	2,899
SD Sch of Mines & Tech	5,743	4,127	198	104	1,256	58
South Dakota State U	16,784	7,448	5,983	257	1,965	1,131
U of South Dakota	4,742	2,084	344	0	604	1,710
Tennessee, total	405,013	240,337	39,258	18,520	67,634	39,264
Public, total	218,461	96,807	39,223	14,020	46,903	21,508
East Tennessee State U	6,494	2,768	1,071	0	100	2,555
Middle Tennessee State U	733	478	150	10	0	95
Tennessee State U	11,285	8,873	0	90	2,269	53
Tennessee Tech U	8,878	1,452	4,143	690	2,364	229
U of Tennessee	162,286	71,973	30,156	12,727	30,069	17,361
U of Tennessee Chattanooga	1,404	86	766	13	468	71
U of Tennessee Martin	0	0	0	0	0	0
Univ of Memphis, The	27,381	11,177	2,937	490	11,633	1,144
Private, total	186,552	143,530	35	4,500	20,731	17,756
Fisk University	3,401	2,652	8	422	0	319
Le Moyne-Owen Coll	1,700	1,700	0	0	0	0

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 13 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Tennessee, continued:						
Private, continued:						
Meharry Medical College	9,460e	9,192e	0e	0e	0e	268e
Southern Col of Optometry	65	0	0	15	50	0
Vanderbilt University	171,926	129,986	27	4,063	20,681	17,169
Texas, total	2,039,642	1,101,463	229,255	165,151	322,234	221,539
Public, total	1,642,944	861,566	223,216	143,167	268,481	146,514
Lamar University	3,204	2,330	716	156	2	0
Prairie View A&M U	9,464	7,679	877	83	825	0
Sam Houston State U	3,053	2,128	144	600	181	0
Southwest Texas St Univ	4,507	3,519	142	0	201	645
Stephen F Austin St U	5,289	521	561	295	1,537	2,375
Sul Ross State University	796	228	484	0	0	84
TX A&M U Sys Hlth Sci Ctr	25,736	14,321	6,290	2,704	2,421	0
Tarleton State University	3,872	1,426	4	0	2,325	117
Texas A&M U Commerce	327	157	14	0	22	134
Texas A&M U Corpus Chri	5,999	1,363	2,979	51	499	1,107
Texas A&M Univ Kingsville	7,404	2,179	511	496	3,568	650
Texas A&M University	397,268	149,639	108,503	31,084	100,119	7,923
Texas Southern U	2,182	1,844	222	116	0	0
Texas Tech University	68,224	21,481	21,164	5,946	15,621	4,012
Texas Woman's University	3,005	1,440	1,046	349	0	170
U North TX Hlth Sci Ctr	10,131	5,799	1,261	2,105	966	0
U TX Hlth Sci Ctr San Ant	103,824	65,251	9,671	10,707	11,305	6,890
U TX MD Anderson Cnrc Ctr	182,196	81,872	0	20,271	50,667	29,386
U TX Med Br at Galveston	97,896	61,357	8,588	6,146	11,236	10,569
U TX SW Med Ctr at Dallas	189,216	109,165	11,320	14,861	5,317	48,553
U TX at Arlington	10,723	5,106	1,882	700	3,035	0
U TX at Austin	272,811	178,889	19,201	24,740	37,883	12,098
U TX at Dallas	15,684	7,049	3,164	4,715	394	362
U TX at El Paso	20,877	16,416	2,881	941	639	0
U TX at San Antonio	10,292	7,441	2,634	0	217	0
U of Houston Clear Lake	7,091	6,383	362	95	228	23
U of Houston Downtown	837	660	0	20	157	0
U of TX Pan American	1,688	1,135	21	6	363	163
UT Houston Hlth Sci Ctr	119,587	79,665	2,803	13,029	7,995	16,095
University of Houston	48,902	21,365	13,521	1,689	7,837	4,490
University of North Texas	9,108	3,618	736	1,257	2,871	626
West Texas A&M U	1,751	140	1,514	5	50	42
Private, total	396,698	239,897	6,039	21,984	53,753	75,025
Abilene Christian Univ	252	165	1	0	86	0
Baylor Col of Dentistry	2,718	1,380	413	124	243	558
Baylor Col of Medicine	334,175	193,249	2,714	17,578	49,443	71,191
Baylor University	3,307	353	520	475	1,428	531
Jarvis Christian College	55	55	0	0	0	0
Rice University	41,840	35,144	1,860	2,858	0	1,978
Southern Methodist U	9,713	6,302	410	557	1,901	543
St. Mary's University	287	62	0	0	225	0
Texas Christian U	3,050	2,441	121	391	97	0
Trinity University	1,241	746	0	1	330	164
University of Dallas	60	0	0	0	0	60
Wiley College	0	0	0	0	0	0
Utah, total	308,059	192,100	20,365	17,853	43,818	33,923
Public, total	290,822	181,722	19,062	15,825	41,596	32,617
University of Utah	187,661	124,344	2,821	7,940	24,226	28,330
Utah State University	103,161	57,378	16,241	7,885	17,370	4,287

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Utah, continued:						
Private, total	17,237	10,378	1,303	2,028	2,222	1,306
Brigham Young University	17,237	10,378	1,303	2,028	2,222	1,306
Vermont, total	64,762	41,232	3,262	5,713	10,239	4,316
Public, total	63,391	39,861	3,262	5,713	10,239	4,316
University of Vermont	63,391	39,861	3,262	5,713	10,239	4,316
Private, total	1,371	1,371	0	0	0	0
Middlebury College	1,371	1,371	0	0	0	0
Virginia, total	587,718	321,690	70,328	53,380	103,522	38,798
Public, total	550,609	299,196	70,290	44,889	102,593	33,641
Col of William & Mary	33,299	13,031	3,113	638	14,467	2,050
George Mason University	26,793	20,669	1,092	630	842	3,560
James Madison University	1,121	712	240	0	0	169
Norfolk State University	3,408	3,273	64	0	0	71
Old Dominion University	25,058	14,908	4,313	3,533	2,304	0
Radford University	624	444	88	25	55	12
University of Virginia	174,522	119,243	6,272	17,266	16,498	15,243
VA Polytech Inst & St U	192,672	71,127	52,346	14,869	46,654	7,676
Virginia Commonwealth U	88,220	52,137	2,056	7,495	21,688	4,844
Virginia Military Inst	470	50	15	334	55	16
Virginia State University	4,422	3,602	691	99	30	0
Private, total	37,109	22,494	38	8,491	929	5,157
Eastern VA Med School	23,299	12,114	31	6,044	110	5,000
Hampton University	9,323	8,994	0	10	269	50
Institute of Textile Tech	2,638	0	0	2,357	281	0
University of Richmond	1,178	849	7	80	242	0
Virginia Union University	671i	537i	0i	0i	27i	107i
Washington, total	642,934	443,223	15,266	62,087	101,445	20,913
Public, total	642,451	442,940	15,266	62,087	101,245	20,913
Central Washington U	2,006	1,426	135	0	425	20
E Washington Univ	2,108	1,366	528	0	121	93
Evergreen State Coll	766	537	46	0	0	183
U of Washington	529,342	389,622	9,984	57,405	63,123	9,208
W Washington Univ	3,433	1,548	289	103	1,296	197
Washington State U	104,796	48,441	4,284	4,579	36,280	11,212
Private, total	483	283	0	0	200	0
Whitman College	483	283	0	0	200	0
West Virginia, total	73,420	33,972	2,963	7,510	24,299	4,676
Public, total	72,658	33,733	2,955	7,510	23,801	4,659
Bluefield State College	0	0	0	0	0	0
Fairmont State College	110	102	0	0	7	1
Marshall University	6,231	5,618	287	325	0	1
WV Sch of Osteo Med	132	0	0	0	93	39
West Virginia State Col	55e	0e	48e	0e	0e	7e
West Virginia University	66,130	28,013	2,620	7,185	23,701	4,611
Private, total	762	239	8	0	498	17
Salem-Tekyo University	762	239	8	0	498	17
Wisconsin, total	661,470	348,779	45,576	21,554	176,467	69,094
Public, total	581,216	290,354	44,021	16,820	168,730	61,291
U WI-Eau Claire	684	219	58	0	107	300
U WI-Green Bay	543	267	84	1	132	59
U WI-La Crosse	1,404	1,001	28	0	118	257
U WI-Madison	554,361	278,629	40,189	16,127	161,132	58,284

See explanatory information and SOURCE at end of table.

Table B-29. R&D expenditures at universities and colleges, by State, control, and source of funds: fiscal year 2000

[Dollars in thousands]

Page 15 of 15

State, control, and institution	Total	Federal Government	State and local governments	Industry	Institutional funds	All other sources
Wisconsin, continued:						
Public, continued:						
U WI-Milwaukee	20,010	8,425	3,358	568	6,394	1,265
U WI-Oshkosh	585	248	54	0	119	164
U WI-Parkside	362	212	11	0	84	55
U WI-River Falls	152	24	7	34	40	47
U WI-Stevens Point	1,227	193	169	7	227	631
U WI-Stout	1,236	880	43	3	254	56
U WI-Superior	380	33	16	68	115	148
U WI-Whitewater	272	223	4	12	8	25
Private, total	80,254	58,425	1,555	4,734	7,737	7,803
Marquette University	7,653	3,085	1,544	1,331	638	1,055
Medical Col of Wisconsin	70,581	55,034	1	1,931	6,905	6,710
Milwaukee School of Eng	2,020	306	10	1,472	194	38
Wyoming, total	43,094	16,556	1,470	2,941	20,103	2,024
Public, total	43,094	16,556	1,470	2,941	20,103	2,024
University of Wyoming	43,094	16,556	1,470	2,941	20,103	2,024
Guam, total	4,130	3,165	965	0	0	0
Public, total	4,130	3,165	965	0	0	0
University of Guam	4,130	3,165	965	0	0	0
Puerto Rico, total	74,529	42,803	14,107	4,925	12,114	580
Public, total	65,364	34,114	14,107	4,925	11,704	514
U PR Mayaguez Campus	34,683	11,837	14,088	3,971	4,451	336
U PR Med Sci Campus	21,373	16,657	19	954	3,565	178
U PR Rio Piedras Campus	9,308	5,620	0	0	3,688	0
Private, total	9,165	8,689	0	0	410	66
Ponce School of Medicine	3,403	3,257	0	0	81	65
Pont Catholic U of PR, The	85	85	0	0	0	0
U Ctrl Del Caribe Esc Med	5,677	5,347	0	0	329	1
Virgin Islands, total	3,310	1,957	1,257	96	0	0
Public, total	3,310	1,957	1,257	96	0	0
U of the Virgin Islands	3,310e	1,957e	1,257e	96e	0e	0e

KEY: e = estimated
 i = imputed

NOTES: Because of rounding, detail may not add to totals.

Beginning in fiscal year 1998, this table reports data for all institutions. In prior years this table reported on doctorate-granting institutions only.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-30. R&D expenditures at doctorate-granting institutions, by geographic division, State, and science and engineering field: fiscal year 2000

[Dollars in thousands]

Page 1 of 2

Division and State	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Total	29,596,635	4,475,944	2,629,914	1,718,179	1,176,028	17,331,692	501,039	1,264,418	499,421
New England	2,332,485	320,703	246,893	214,654	102,734	1,229,280	47,042	107,238	63,941
Connecticut	464,524	35,589	28,307	10,966	6,006	357,159	13,135	11,042	2,320
Maine	54,821	7,326	9,028	15,214	1,062	18,431	465	3,041	254
Massachusetts	1,469,070	241,640	193,619	122,310	79,030	674,391	22,522	82,381	53,177
New Hampshire	150,982	21,153	5,165	37,169	2,976	73,359	4,400	5,448	1,312
Rhode Island	129,697	13,716	9,667	28,582	12,268	49,873	5,582	5,120	4,889
Vermont	63,391	1,279	1,107	413	1,392	56,067	938	206	1,989
Middle Atlantic	4,344,524	608,963	343,820	151,244	189,270	2,709,146	94,483	182,516	65,082
New Jersey	566,022	100,991	54,218	36,824	25,768	264,168	13,025	41,814	29,214
New York	2,240,471	243,281	189,304	87,326	78,166	1,519,235	50,798	61,291	11,070
Pennsylvania	1,538,031	264,691	100,298	27,094	85,336	925,743	30,660	79,411	24,798
East North Central	4,214,128	722,257	381,546	101,439	164,371	2,427,118	89,399	266,843	61,155
Illinois	1,157,321	168,807	121,114	38,069	79,437	650,299	24,453	51,028	24,114
Indiana	503,422	83,632	65,287	7,915	18,148	245,612	13,492	51,781	17,555
Michigan	986,941	190,441	76,174	12,488	21,984	580,480	15,983	83,954	5,437
Ohio	913,839	201,890	67,217	11,291	31,032	534,086	11,507	42,959	13,857
Wisconsin	652,605	77,487	51,754	31,676	13,770	416,641	23,964	37,121	192
West North Central	1,996,661	237,183	110,873	56,082	49,734	1,395,537	26,185	87,332	33,735
Iowa	416,295	69,970	25,273	6,150	11,476	265,422	3,823	24,238	9,943
Kansas	256,673	41,146	19,475	11,752	6,005	155,998	3,033	9,071	10,193
Minnesota	411,380	41,343	24,475	12,762	12,090	297,925	8,218	14,567	0
Missouri	609,304	48,914	23,532	7,205	12,896	485,685	8,349	20,556	2,167
Nebraska	208,334	23,727	11,771	12,810	6,070	131,522	2,189	12,095	8,150
North Dakota	67,406	9,103	4,813	1,777	1,175	42,341	475	5,227	2,495
South Dakota	27,269	2,980	1,534	3,626	22	16,644	98	1,578	787
South Atlantic	5,515,978	1,013,583	447,007	344,221	272,393	3,027,195	83,437	265,776	62,366
Delaware	74,711	23,730	11,038	9,960	3,113	20,227	1,725	4,918	0
District of Columbia	241,339	11,825	18,541	336	19,340	159,832	2,040	19,115	10,310
Florida	842,398	117,113	89,341	88,031	20,146	453,509	28,280	39,400	6,578
Georgia	913,704	225,622	53,870	37,948	51,193	458,297	20,554	54,480	11,740
Maryland	1,495,132	337,715	155,639	88,770	116,716	700,899	7,609	68,176	19,608
North Carolina	1,014,712	100,039	53,231	35,455	30,181	737,143	8,655	45,315	4,693
South Carolina	284,544	58,469	19,917	16,962	14,224	152,100	4,143	14,058	4,671
Virginia	576,945	118,382	40,758	61,066	15,276	310,567	10,156	20,213	527
West Virginia	72,493	20,688	4,672	5,693	2,204	34,621	275	101	4,239
East South Central	1,289,819	203,965	80,900	35,760	33,114	844,852	24,874	33,393	32,961
Alabama	417,297	66,355	19,724	8,987	12,920	287,663	8,234	5,044	8,370
Kentucky	266,916	36,313	10,774	757	3,906	195,844	3,006	5,898	10,418
Mississippi	207,163	42,225	23,241	11,750	6,062	105,481	1,360	6,097	10,947
Tennessee	398,443	59,072	27,161	14,266	10,226	255,864	12,274	16,354	3,226
West South Central	2,764,050	395,565	179,044	200,658	91,581	1,768,617	29,902	71,578	27,105
Arkansas	124,494	13,154	5,952	2,532	608	99,031	315	2,845	57
Louisiana	386,072	55,410	22,070	33,926	8,578	238,368	1,233	14,216	12,271
Oklahoma	249,357	37,779	23,512	32,151	5,519	114,414	14,471	17,765	3,746
Texas	2,004,127	289,222	127,510	132,049	76,876	1,316,804	13,883	36,752	11,031

See explanatory information and SOURCE at end of table.

Table B-30. R&D expenditures at doctorate-granting institutions, by geographic division, State, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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Division and State	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Mountain	1,862,854	339,714	263,376	176,286	55,401	845,565	30,242	63,152	89,118
Arizona	465,777	85,669	103,643	22,943	12,673	203,541	5,593	26,616	5,099
Colorado	537,113	61,920	89,740	78,160	11,614	260,405	12,428	11,006	11,840
Idaho	70,246	10,189	3,492	5,357	1,095	45,793	836	2,402	1,082
Montana	94,914	9,369	11,950	905	2,241	60,001	185	5,307	4,956
Nevada	106,340	7,330	10,582	36,585	1,454	29,262	1,164	3,170	16,793
New Mexico	237,311	87,647	17,725	11,428	7,794	65,753	6,340	7,296	33,328
Utah	308,059	72,618	23,080	12,940	17,962	163,298	3,391	6,258	8,512
Wyoming	43,094	4,972	3,164	7,968	568	17,512	305	1,097	7,508
Pacific	5,201,607	626,307	572,386	432,471	216,858	3,032,221	74,103	184,508	62,753
Alaska	102,500	6,681	37,044	21,644	12,899	19,887	0	4,345	0
California	3,959,884	534,555	459,777	252,557	178,401	2,277,688	56,212	145,294	55,400
Hawaii	161,300	8,734	26,699	51,453	434	63,662	457	3,611	6,250
Oregon	343,785	20,668	16,863	40,809	15,450	227,931	7,724	13,779	561
Washington	634,138	55,669	32,003	66,008	9,674	443,053	9,710	17,479	542
Outlying Areas	74,529	7,704	4,069	5,364	572	52,161	1,372	2,082	1,205

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

Page 1 of 15

State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
United States, total	30,062,371	4,550,315	2,705,907	1,768,760	1,219,099	17,479,853	516,365	1,295,905	526,167
Public, total	20,517,436	3,288,623	1,798,329	1,427,842	740,845	11,498,850	381,218	998,757	382,972
Private, total	9,544,935	1,261,692	907,578	340,918	478,254	5,981,003	135,147	297,148	143,195
Alabama, total	428,122	67,262	20,092	8,995	13,141	295,129	8,234	6,899	8,370
Public, total	418,662	66,355	19,724	8,987	13,120	288,769	8,234	5,103	8,370
Alabama A&M University	8,238	848	1,700	97	543	4,395	0	226	429
Alabama State University	1,365e	0e	0e	0e	200e	1,106e	0e	59e	0e
Auburn University	92,612	23,859	3,083	488	398	56,273	453	2,084	5,974
U of Alabama Birmingham	233,461	6,835	3,316	0	543	216,304	6,233	230	0
U of Alabama Huntsville	41,274	17,154	8,185	5,241	8,562	490	0	100	1,542
U of South Alabama	9,865	601	160	762	40	7,836	202	264	0
University of Alabama, The	31,847	17,058	3,280	2,399	2,834	2,365	1,346	2,140	425
Private, total	9,460	907	368	8	21	6,360	0	1,796	0
Oakwood College	567e	0e	202e	8e	21e	336e	0e	0e	0e
Selma University	0	0	0	0	0	0	0	0	0
Talladega College	0	0	0	0	0	0	0	0	0
Tuskegee University	8,893	907	166	0	0	6,024	0	1,796	0
Alaska, total	107,417	6,681	37,056	21,644	12,899	19,991	0	4,354	4,792
Public, total	107,417	6,681	37,056	21,644	12,899	19,991	0	4,354	4,792
U of Alaska Anchorage	4,782e	0i	0i	0i	0i	0i	0i	0i	4,782i
U of Alaska Fairbanks	102,500	6,681	37,044	21,644	12,899	19,887	0	4,345	0
U of Alaska, SE	135	0	12	0	0	104	0	9	10
Arizona, total	465,777	85,669	103,643	22,943	12,673	203,541	5,593	26,616	5,099
Public, total	465,777	85,669	103,643	22,943	12,673	203,541	5,593	26,616	5,099
Arizona State University	108,117	36,612	19,021	11,532	4,901	15,949	5,438	9,591	5,073
Northern Arizona U	12,570	785	1,395	1,068	87	7,125	117	1,981	12
University of Arizona	345,090	48,272	83,227	10,343	7,685	180,467	38	15,044	14
Arkansas, total	130,894	13,519	6,372	3,012	787	102,978	370	3,096	760
Public, total	130,822	13,519	6,340	3,012	787	102,938	370	3,096	760
Arkansas State University	1,203	136	89	0	11	834	16	117	0
Arkansas Tech Univ	419	53	4	205	2	110	0	45	0
U Arkansas Pine Bluff	4,151i	0i	156i	0i	14i	3,279i	0i	86i	616i
U of AR at Little Rock	3,400e	558i	303i	241i	119i	1,884i	61i	177i	57i
U of Arkansas Main	70,817	12,460	5,560	2,291	478	47,239	238	2,551	0
U of Arkansas Medical Sci	49,074	0	0	0	0	49,074	0	0	0
U of Central Arkansas	1,758	312i	228i	275i	163i	518i	55i	120i	87i
Private, total	72	0	32	0	0	40	0	0	0
Philander Smith College	72e	0e	32e	0e	0e	40e	0e	0e	0e
California, total	4,053,042	554,266	468,519	265,503	187,268	2,305,746	60,862	150,777	60,101
Public, total	3,000,360	353,962	284,122	228,986	109,593	1,796,697	47,960	133,220	45,820
CA St Poly U Pomona	1,703	71	0	0	0	903	0	0	729
CA St U Bakersfield	3,703	741i	430i	649i	245i	1,149i	74i	291i	124i
CA St U Chico	2,390	56	0	0	773	315	0	998	248
CA St U Dominguez Hills	998	0	125	22	0	784	0	0	67
CA St U Fresno	11,598	2,400	164	63	312	5,537	179	381	2,562
CA St U Fullerton	1,712i	359i	297i	140i	125i	540i	46i	163i	42i
CA St U Long Beach	32,551	2,675	1,307	533	73	13,224	6,187	8,552	0
CA St U Los Angeles	9,062	2,248i	1,396i	1,076i	699i	2,708i	290i	445i	200i
CA St U Northridge	6,190	795	1,039	171	517	3,239	225	204	0
CA St U San Bernardino	1,797	0	19	84	296	176	10	1,138	74
Cal Poly St U	12,133	3,496	486	0	4,522	3,539	28	11	51
Humboldt State University	5,557e	807e	19e	470e	373e	3,315e	8e	457e	108e
Naval Postgrad School	37,502i	9,989i	2,393i	9,038i	7,651i	0i	0i	5,108i	3,323i
San Diego St University	55,002	6,710	2,813	3,166	2,984	20,629	6,160	5,893	6,647

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
California, continued:									
Public, continued:									
San Francisco State U	5,223e	1,263i	790i	637i	406i	1,558i	168i	277i	124i
San Jose State University	21,005e	5,770e	1,881e	9,427e	328e	598e	2,938e	63e	0e
Sonoma State University	150	0	6	5	18	97	0	19	5
U CA Berkeley	518,514	120,757	90,306	7,132	7,808	219,128	7,218	41,708	24,457
U CA Davis	364,789	35,197	18,183	9,958	3,719	292,503	1,509	3,649	71
U CA Irvine	158,437	15,518	16,519	3,373	6,078	107,771	3,313	5,494	371
U CA Los Angeles	530,826	46,434	45,035	14,893	12,638	368,030	9,012	32,915	1,869
U CA Riverside	83,580	9,995	7,627	11,115	764	47,470	1,867	3,337	1,405
U CA San Diego	518,559	46,660	33,652	115,186	51,277	255,497	5,364	9,668	1,255
U CA San Francisco	443,013	0	12,332	0	0	429,541	0	1,140	0
U CA Santa Barbara	118,154	38,902	23,459	28,009	5,367	9,176	2,222	8,974	2,045
U CA Santa Cruz	56,212	3,119	23,844	13,839	2,620	9,270	1,142	2,335	43
Private, total	1,052,682	200,304	184,397	36,517	77,675	509,049	12,902	17,557	14,281
Azusa Pacific U	0e	0e	0e	0e	0e	0e	0e	0e	0e
Biola University	0	0	0	0	0	0	0	0	0
C R Drew U of Med & Sci	31,045	0	0	0	0	31,045	0	0	0
CA Inst of Integral Stu	0	0	0	0	0	0	0	0	0
CA Sch Prof Psy S Diego	1,020e	0e	0e	0e	0e	0e	1,020e	0e	0e
CA Sch Prof Psy-Alameda	498e	0e	0e	0e	0e	0e	498e	0e	0e
CA Sch Prof Psy-Fresno	1,034	0	0	0	0	0	1,034	0	0
CA Sch Prof Psy-L.A.	0	0	0	0	0	0	0	0	0
California Inst of Tech	222,666	43,320	118,664	13,846	4,673	31,932	0	439	9,792
Chapman U	373	0	0	0	0	140	0	180	53
Claremont Graduate Sch	2,416	0	0	0	730	0	1,028	658	0
Fuller Theological Sem	80e	0i	0i	0i	0i	0i	80i	0i	0i
Golden Gate University	0	0	0	0	0	0	0	0	0
Harvey Mudd College	5,699e	1,541i	865i	58i	206i	2,461i	41i	236i	291i
Loma Linda University	24,369	0	0	0	0	21,488	0	826	2,055
Occidental College	826	0	637	72	0	26	0	91	0
Pepperdine University	0	0	0	0	0	0	0	0	0
Pitzer College	383	0	0	0	0	6	299	78	0
Point Loma Nazarene Col	165	0	137	0	0	28	0	0	0
Pomona College	1,791	0	351	65	11	613	335	416	0
Santa Clara University	2,509i	1,375i	159i	0i	113i	350i	8i	504i	0i
Stanford University	454,780	107,473	53,222	8,056	18,748	256,252	4,584	6,445	0
U of Southern California	300,445	46,319	10,177	14,394	53,132	162,756	3,965	7,640	2,062
US International U	0	0	0	0	0	0	0	0	0
University San Francisco	700	164i	100i	7i	36i	326i	9i	35i	23i
University of San Diego	545	93i	66i	19i	26i	326i	1i	9i	5i
University of the Pacific	1,020	19	19	0	0	982	0	0	0
Western U of Hlth Sci	318i	0i	0i	0i	0i	318i	0i	0i	0i
Colorado, total	544,204	63,882	91,734	78,332	11,811	262,178	12,621	11,406	12,240
Public, total	534,400	62,314	88,522	78,166	11,317	260,822	10,641	10,669	11,949
Colorado School of Mines	21,795	13,878	6,318	961	580	0	0	58	0
Colorado State University	152,279	15,452	8,469	14,402	2,465	96,098	2,679	2,722	9,992
Fort Lewis College	191	0	86	0	0	98	0	7	0
U of Colorado HSC	141,203	0	0	0	0	141,203	0	0	0
U of Colorado, Boulder	207,973	29,654	71,536	62,660	7,732	21,407	7,640	6,618	726
U of Colorado, Col Spgs	1,251i	492i	206i	4i	157i	213i	131i	48i	0i
U of Colorado, Denver	3,101	876	199	105	259	309	28	494	831
U of Northern Colorado	1,128	0	177	16	1	265	34	635	0
U of Southern Colorado	724	176	256	0	34	255	3	0	0
U.S. Air Force Academy	4,551	1,786	1,269	0	89	841	126	40	400
W State Coll Colorado	204	0	6	18	0	133	0	47	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

Page 3 of 15

State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Colorado, continued:									
Private, total	9,804	1,568	3,212	166	494	1,356	1,980	737	291
Colorado College	1,213	0	244	154	74	371	64	306	0
Regis University	208	0	133	0	0	75	0	0	0
University of Denver	8,383	1,568	2,835	12	420	910	1,916	431	291
Connecticut, total	468,435	37,052	28,861	11,102	6,241	357,698	13,423	11,722	2,336
Public, total	162,303	27,699	7,114	8,259	1,861	97,925	8,121	9,004	2,320
Central Connecticut St U	218	0	17	0	0	86	4	111	0
Southern Connecticut St U	596	0	0	0	0	14	241	341	0
US Coast Guard Academy	405	405	0	0	0	0	0	0	0
University of Connecticut	161,084	27,294	7,097	8,259	1,861	97,825	7,876	8,552	2,320
Private, total	306,132	9,353	21,747	2,843	4,380	259,773	5,302	2,718	16
Connecticut College	423 <i>i</i>	100 <i>i</i>	97 <i>i</i>	4 <i>i</i>	24 <i>i</i>	160 <i>i</i>	2 <i>i</i>	20 <i>i</i>	16 <i>i</i>
Fairfield University	1,061	100	383	1	82	246	41	208	0
Trinity College	1,010	809	57	0	111	33	0	0	0
University of Hartford	1,061	529	148	0	98	56	0	230	0
University of New Haven	198 <i>e</i>	49 <i>e</i>	0 <i>e</i>	131 <i>e</i>	18 <i>e</i>	0 <i>e</i>	0 <i>e</i>	0 <i>e</i>	0 <i>e</i>
Wesleyan University	5,673	0	2,232	177	66	1,806	1,097	295	0
Yale University	296,706	7,766	18,830	2,530	3,981	257,472	4,162	1,965	0
Delaware, total	78,126	23,730	11,920	9,960	3,199	22,674	1,725	4,918	0
Public, total	78,126	23,730	11,920	9,960	3,199	22,674	1,725	4,918	0
Delaware State University	3,415	0	882	0	86	2,447	0	0	0
University of Delaware	74,711	23,730	11,038	9,960	3,113	20,227	1,725	4,918	0
District of Columbia, total	245,828	11,924	19,232	572	19,393	161,037	2,256	21,092	10,322
Public, total	2,737	99	691	236	53	1,072	0	574	12
University of DC	2,737	99	691	236	53	1,072	0	574	12
Private, total	243,091	11,825	18,541	336	19,340	159,965	2,256	20,518	10,310
American University	2,245	146	1,045	10	374	12	321	320	17
Catholic U of America	9,329	1,371	6,628	0	0	499	476	349	6
Gallaudet University	1,752	0	0	0	0	133	216	1,403	0
George Washington U	69,300	8,536	1,974	43	16,276	23,310	790	8,827	9,544
Georgetown University	133,211	0	4,969	186	160	119,611	93	7,500	692
Howard University	27,254	1,772	3,925	97	2,530	16,400	360	2,119	51
Florida, total	851,932	117,445	89,661	88,418	24,653	454,740	28,502	40,167	8,346
Public, total	693,874	114,118	86,189	57,055	23,381	349,460	20,212	36,881	6,578
Florida A&M University	21,612	3,111	1,780	2,274	1,781	12,442	0	224	0
Florida Atlantic U	19,535	11,325	739	2,829	1,272	307	1,636	1,142	285
Florida International U	34,649	14,641	3,667	6,372	2,303	3,372	430	3,864	0
Florida State University	105,095	11,673	43,626	14,303	5,415	12,779	4,234	13,065	0
U of Central Florida	47,646	9,157	13,656	8,250	514	3,566	1,026	5,204	6,273
U of South Florida	145,397	16,698	2,556	19,197	538	95,756	7,542	3,090	20
U of West Florida	6,248	0	160	0	4,449	650	222	767	0
University of Florida	313,692	47,513	20,005	3,830	7,109	220,588	5,122	9,525	0
Private, total	158,058	3,327	3,472	31,363	1,272	105,280	8,290	3,286	1,768
Bethune Cookman College	586	0	0	5	0	581	0	0	0
Embry-Riddle Aero Univ	2,700 <i>e</i>	332 <i>i</i>	160 <i>i</i>	382 <i>i</i>	58 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	1,768 <i>i</i>
Florida Inst of Tech	6,058	1,651	1,044	1,052	1,035	1,030	246	0	0
Nova Southeastern U	2,919	0	0	1,571	0	197	1,151	0	0
University of Miami	145,795	1,344	2,268	28,353	179	103,472	6,893	3,286	0
Georgia, total	926,749	226,268	55,949	39,178	51,435	464,137	21,076	55,438	13,268
Public, total	653,097	205,840	35,748	39,175	49,008	246,913	19,172	51,357	5,884
Albany State University	1,393	315	0	82	93	328	0	402	173
Fort Valley State U	2,768	0	0	0	0	2,520	0	248	0
Georgia Institute of Tech	304,511	197,589	21,141	23,382	40,168	8,008	4,358	4,594	5,271
Georgia Southern U	944	0	232	124	0	510	0	78	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

Page 4 of 15

State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Georgia, continued:									
Public, continued:									
Georgia State University	36,600	0	3,758	569	1,087	9,256	7,182	14,748	0
Kennesaw State Univ	249	0	249	0	0	0	0	0	0
Medical Col of Georgia	45,596	0	0	0	0	45,596	0	0	0
Savannah State Univ	905	331	0	574	0	0	0	0	0
State U of West Georgia	1,655	0	300	450	45	420	0	0	440
University of Georgia	258,476	7,605	10,068	13,994	7,615	180,275	7,632	31,287	0
Private, total	273,652	20,428	20,201	3	2,427	217,224	1,904	4,081	7,384
Clark Atlanta University	16,891	1,479	4,092	0	1,293	2,616	393	549	6,469
Emory University	206,070	0	8,355	3	961	192,492	967	3,292	0
Inst of Paper Sci & Tech	10,533e	5,310i	4,358i	0i	0i	865i	0i	0i	0i
Mercer University	18,138	13,639	2,098	0	69	2,300	22	10	0
Morehouse College	2,853e	0e	293e	0e	63e	1,097e	273e	213e	914e
Morehouse School of Med	16,889	0	0	0	0	16,889	0	0	0
Morris Brown College	116	0	0	0	0	0	116	0	0
Spelman College	2,082	0	1,001	0	41	920	103	17	0
Wesleyan Col (Macon)	80	0	4	0	0	45	30	0	1
Hawaii, total	161,300	8,734	26,699	51,453	434	63,662	457	3,611	6,250
Public, total	161,300	8,734	26,699	51,453	434	63,662	457	3,611	6,250
Univ of Hawaii at Manoa	161,300	8,734	26,699	51,453	434	63,662	457	3,611	6,250
Idaho, total	73,726	10,652	3,669	6,931	1,218	46,543	976	2,496	1,241
Public, total	73,726	10,652	3,669	6,931	1,218	46,543	976	2,496	1,241
Boise State University	3,480	463	177	1,574	123	750	140	94	159
Idaho State University	8,899	351	1,419	701	36	5,981	111	300	0
University of Idaho	61,347	9,838	2,073	4,656	1,059	39,812	725	2,102	1,082
Illinois, total	1,170,625	170,080	123,554	39,018	81,541	653,036	24,705	53,067	25,624
Public, total	629,526	120,375	63,558	32,435	72,924	268,853	15,297	41,081	15,003
Chicago State University	1,263	0	0	0	0	0	0	0	1,263
Eastern Illinois U	0e	0e	0e	0e	0e	0e	0e	0e	0e
Illinois State University	4,434	0i	409i	24i	746i	1,656i	149i	1,450i	0i
Knox College	254	0	56	0	0	197	0	1	0
Northeastern Illinois U	184	0	0	47	19	42	12	0	64
Northern Illinois U	7,431	559	2,952	573	391	1,467	1,348	141	0
S Illinois U Carbondale	36,354	4,760	1,530	691	655	23,401	536	2,293	2,488
S Illinois U Edwardsville	1,344	196	86	0	43	244	15	760	0
U of IL Chicago	195,839	19,007	8,186	1,696	5,406	142,203	4,155	9,439	5,747
U of IL Springfield	910	0	0	5	1	41	0	863	0
U of IL Urbana-Champaign	373,024	95,353	48,612	28,497	63,629	97,752	8,872	24,868	5,441
Western Illinois U	8,489	500	1,727	902	2,034	1,850	210	1,266	0
Private, total	541,099	49,705	59,996	6,583	8,617	384,183	9,408	11,986	10,621
Bradley University	1,371	577	399	0	8	190	2	12	183
DePaul University	863	0	125	31	88	28	570	21	0
Finch U Hlth Sci Chicago	7,587	0	0	0	0	7,000	587	0	0
Illinois Inst of Tech	13,734	4,443	1,203	0	262	7,142	684	0	0
Lake Forest College	399	0	172	0	0	214	13	0	0
Loyola U of Chicago	30,034	0	2,155	30	88	25,087	1,227	1,447	0
Midwestern University	2,470	0	0	0	0	2,470	0	0	0
Northwestern University	245,774	44,685	20,408	859	4,929	153,243	2,952	8,260	10,438
Rush University	68,189	0	0	0	0	67,122	1,067	0	0
University of Chicago	170,678	0	35,534	5,663	3,242	121,687	2,306	2,246	0
Indiana, total	509,141	87,515	66,303	7,915	18,968	245,612	13,492	51,781	17,555
Public, total	468,898	74,183	50,035	7,915	16,552	239,811	12,137	51,244	17,021
Ball State University	2,429	54	244	542	139	993	99	335	23

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Indiana, continued:									
Public, continued:									
Indiana State University	4,196	0	14	207	0	387	0	3,588	0
Indiana University	227,737	2,614	29,682	3,070	5,916	131,540	9,073	29,271	16,571
Purdue University	234,536	71,515	20,095	4,096	10,497	106,891	2,965	18,050	427
Private, total	40,243	13,332	16,268	0	2,416	5,801	1,355	537	534
Rose-Hulman Inst of Tech	4,994	3,691	659	0	644	0	0	0	0
University of Notre Dame	34,524	9,449	15,252	0	1,596	5,801	1,355	537	534
Valparaiso University	725	192	357	0	176	0	0	0	0
Iowa, total	418,263	69,970	25,613	6,175	11,637	265,961	4,659	24,305	9,943
Public, total	414,246	69,970	25,273	6,150	11,476	263,373	3,823	24,238	9,943
Iowa State University	175,558	47,049	9,232	3,803	9,967	79,334	643	15,842	9,688
U of Iowa	236,944	22,921	15,985	2,025	1,509	183,099	3,180	7,970	255
U of Northern Iowa	1,744	0	56	322	0	940	0	426	0
Private, total	4,017	0	340	25	161	2,588	836	67	0
Coe College	0i	0i	0i	0i	0i	0i	0i	0i	0i
Des Moines U Ost Med Ctr	417	0	0	0	0	417	0	0	0
Drake University	468	0	86	0	51	191	135	5	0
Grinnell College	1,500	0	254	25	110	348	701	62	0
Maharishi U of Mgmt	1,632	0	0	0	0	1,632	0	0	0
Kansas, total	258,336	42,126	19,530	11,752	6,005	156,289	3,033	9,408	10,193
Public, total	258,336	42,126	19,530	11,752	6,005	156,289	3,033	9,408	10,193
Kansas State University	91,790	15,935	8,062	790	1,270	59,728	1,109	3,288	1,608
Pittsburg State U	1,663	980	55	0	0	291	0	337	0
University of Kansas	148,670	12,403	10,207	10,919	4,304	95,317	1,224	5,711	8,585
Wichita State University	16,213	12,808	1,206	43	431	953	700	72	0
Kentucky, total	274,238	36,381	13,336	1,855	3,981	198,546	3,181	5,998	10,960
Public, total	273,776	36,381	13,336	1,855	3,928	198,525	2,793	5,998	10,960
Eastern Kentucky U	640	0	44	341	0	255	0	0	0
Kentucky State University	713i	0i	0i	0i	61i	652i	0i	0i	0i
Murray State University	2,084	13	79	519	8	1,379	6	78	2
Northern Kentucky U	115	0	40	0	6	44	7	18	0
University of Kentucky	202,392	31,426	8,068	546	2,060	145,901	799	3,174	10,418
University of Louisville	64,062	4,887	2,706	211	1,793	49,922	1,819	2,724	0
Western Kentucky Univ	3,770	55	2,399	238	0	372	162	4	540
Private, total	462	0	0	0	53	21	388	0	0
Spalding University	462	0	0	0	53	21	388	0	0
Louisiana, total	399,411	56,478	24,958	35,072	9,966	244,460	1,653	14,553	12,271
Public, total	305,937	49,781	21,233	33,624	9,236	172,240	1,295	12,456	6,072
Grambling State U	2,264	19	786	0	1,137	322	0	0	0
Louisiana St U, A&M Colle	172,294	29,136	12,749	30,278	2,945	90,964	123	5,347	752
Louisiana St U, Hlth Sci	55,793	0	0	0	0	55,793	0	0	0
Louisiana St U, Shrevepor	126	0	32	0	0	80	0	14	0
Louisiana Tech University	928	472i	72i	0i	133i	89i	0i	0i	162i
McNeese State University	639	39	11	512	42	35	0	0	0
Nicholls State U	504	0	43	0	4	173	274	10	0
Southeastern Louisiana U	1,057	0	244	0	0	757	39	17	0
Southern U A&M All Camp	8,302	1,010	1,425	634	205	4,625	107	296	0
Southern U New Orleans	183	0	83e	0	0	100e	0	0	0
U of LA Lafayette	32,692	6,613	966	327	4,251	18,167	214	906	1,248
U of LA Monroe, The	8,135e	0e	124e	486e	42e	677e	0e	2,896e	3,910e
University of New Orleans	23,020	12,492	4,698	1,387	477	458	538	2,970	0
Private, total	93,474	6,697	3,725	1,448	730	72,220	358	2,097	6,199
Dillard University	264	0	264	0	0	0	0	0	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Louisiana, continued:									
Private, continued:									
Tulane University	89,785	6,697	2,784	1,448	730	70,301	358	2,097	5,370
Xavier University of LA	3,425	0	677	0	0	1,919	0	0	829
Maine, total	57,753	7,326	9,578	15,787	1,153	19,630	521	3,504	254
Public, total	56,187	7,326	9,028	15,490	1,129	19,341	465	3,154	254
U of Maine	54,821	7,326	9,028	15,214	1,062	18,431	465	3,041	254
U of Southern Maine	1,366e	0e	0e	276e	67e	910e	0e	113e	0e
Private, total	1,566	0	550	297	24	289	56	350	0
Bates College	598	0	330	191	9	24	25	19	0
Bowdoin College	576	0	80	94	0	161	24	217	0
Colby College	392	0	140	12	15	104	7	114	0
Maryland, total	1,507,549	339,064	156,897	89,508	120,633	705,230	7,656	68,235	20,326
Public, total	604,669	86,508	59,157	51,721	25,526	319,034	4,020	57,647	1,056
Bowie State University	2,675e	3e	0e	236e	2,109e	327e	0e	0e	0e
Coppin State College	0	0	0	0	0	0	0	0	0
Morgan State University	4,371	14	8	0	878	3,471	0	0	0
St Mary's Col of MD	447	0	6	280	37	101	23	0	0
Towson University	2,138	0	484	31	427	432	24	22	718
U MD Baltimore County	26,044	8,198	3,756	5,373	977	4,777	740	2,223	0
U MD Biotechnology Inst	29,946	0	0	7,442	0	22,504	0	0	0
U MD Ctr for Environ Sci	31,605	0	0	31,605	0	0	0	0	0
U MD Eastern Shore	3,895	870	425	161	0	1,563	0	538	338
U MD at College Park	252,429	76,091	53,718	6,402	20,632	37,526	3,233	54,827	0
U of MD Baltimore	224,346	0	0	0	0	224,346	0	0	0
US Naval Academy	2,786	1,332	760	191	466	0	0	37	0
Unif Svcs U of Hlth Sci	23,987	0	0	0	0	23,987	0	0	0
Private, total	902,880	252,556	97,740	37,787	95,107	386,196	3,636	10,588	19,270
Johns Hopkins U	901,156	251,993	97,484	37,558	94,720	385,907	3,636	10,588	19,270
Loyola College	1,724	563	256	229	387	289	0	0	0
Massachusetts, total	1,485,792	242,528	196,519	123,207	80,266	680,849	23,056	85,712	53,655
Public, total	233,547	26,284	26,142	14,055	15,165	131,958	6,376	9,756	3,811
Bridgewater State College	585	0	16	62	0	115	0	11	381
Fitchburg State College	26	0	0	0	0	0	0	0	26
U MA Amherst	97,052	17,476	20,094	8,707	13,344	28,833	4,788	1,651	2,159
U MA Boston	12,058	23	619	1,204	252	2,190	860	6,664	246
U MA Dartmouth	6,905	1,661	659	2,227	889	1,028	4	82	355
U MA Lowell	19,334	7,124	4,754	1,855	680	2,205	724	1,348	644
U MA Worcester	97,587	0	0	0	0	97,587	0	0	0
Private, total	1,252,245	216,244	170,377	109,152	65,101	548,891	16,680	75,956	49,844
Amherst College	1,859	0	710	47	27	800	23	252	0
Boston College	27,767	0	7,638	450	12,182	2,876	417	4,204	0
Boston University	154,029	17,455	12,569	3,370	2,299	103,731	3,349	1,934	9,322
Brandeis University	47,658	0	4,666	0	1,546	20,159	1,712	19,575	0
Clark University	2,908	0	867	1,484	5	190	330	32	0
College of the Holy Cross	371	2	109	0	18	54	102	86	0
Hampshire College	2,658	445	274	129	291	177	390	915	37
Harvard University	341,810	4,402	32,530	13,868	3,904	251,246	4,387	31,473	0
MA Col Phar Allied Hlth	96i	0i	0i	0i	0i	96i	0i	0i	0i
MA Institute of Tech	426,299	149,282	92,198	22,009	39,481	73,228	1,357	8,293	40,451
Mount Holyoke College	1,835	0	510	195	583	440	6	101	0
New England Col Opt	1,228	0	0	0	0	1,228	0	0	0
Northeastern University	35,340	11,680	12,507	13	1,851	6,838	1,281	1,170	0
Simmons College	912	0	0	0	0	74	0	838	0
Smith College	2,582	15	110	775	140	815	380	347	0
Tufts University	105,783	7,342	3,838	1,438	1,399	83,227	2,933	5,606	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Massachusetts, continued:									
Private, continued:									
Wellesley College	4,943i	0i	972i	0i	225i	2,696i	0i	1,050i	0i
Wentworth Inst of Tech	452	0	0	452	0	0	0	0	0
Williams College	1,853e	441i	309i	12i	92i	874i	13i	78i	34i
Woods Hole Oceanogr Inst	81,547	16,637	0	64,910	0	0	0	0	0
Worcester Polytech Inst	10,315	8,543	570	0	1,058	142	0	2	0
Michigan, total	995,756	192,614	77,198	14,241	22,332	581,751	16,023	84,566	7,031
Public, total	989,986	190,933	75,021	14,121	22,080	580,838	15,976	84,359	6,658
Central Michigan U	755e	96e	175e	175e	39e	175e	50e	40e	5e
Eastern Michigan U	4,118	646	173	906	15	424	40	408	1,506
Ferris State University	15e	3e	1e	0e	0e	11e	0e	0e	0e
Grand Valley State U	1,138	2	133	727	108	62	0	106	0
Michigan State University	227,734	18,348	35,882	1,827	4,193	143,190	3,664	18,524	2,106
Michigan Tech University	27,204	18,387	1,636	1,813	768	4,160	0	209	231
Oakland University	6,422e	1,094e	569e	0e	294e	4,118e	14e	0e	333e
University of Michigan	551,556	136,176	23,407	7,609	12,225	306,199	9,076	56,840	24
Wayne State University	156,814	12,155	11,683	31	1,337	120,701	3,096	5,358	2,453
Western Michigan U	14,230	4,026	1,362	1,033	3,101	1,798	36	2,874	0
Private, total	5,770	1,681	2,177	120	252	913	47	207	373
Andrews University	444	1	34	0	27	125	4	109	144
Calvin College	1,191	2	394	71	103	435	0	98	88
Hope College	922	77	324	49	122	350	0	0	0
Kettering University	625	625	0	0	0	0	0	0	0
Lawrence Tech Univ	821	821	0	0	0	0	0	0	0
U of Detroit Mercy	1,767	155	1,425	0	0	3	43	0	141
Minnesota, total	416,411	42,190	25,924	13,486	12,611	298,912	8,288	14,985	15
Public, total	413,922	42,190	24,888	13,153	12,445	298,182	8,218	14,831	15
Minnesota State, Mankato	607	87	75	225	66	139	0	0	15
St. Cloud State Univ	1,935e	760e	338e	166e	289e	118e	0e	264e	0e
University of Minnesota	411,380	41,343	24,475	12,762	12,090	297,925	8,218	14,567	0
Private, total	2,489	0	1,036	333	166	730	70	154	0
Augsburg College	337	0	337	0	0	0	0	0	0
Carleton College	1,245	0	367	314	163	361	0	40	0
Gustavus Adolphus Col	143	0	83	0	0	17	0	43	0
Macalester College	220i	0i	371	19i	0i	94i	70i	0i	0i
St Olaf College	544	0	212	0	3	258	0	71	0
Mississippi, total	217,064	42,237	23,914	11,750	6,472	114,287	1,360	6,097	10,947
Public, total	216,031	42,237	23,738	11,750	6,303	113,599	1,360	6,097	10,947
Alcorn State University	8,034	0	0	0	0	8,034	0	0	0
Jackson State University	12,027	385	3,728	1,972	2,646	3,248	48	0	0
Mississippi State U	132,503	38,107	5,223	3,540	3,014	75,070	887	4,349	2,313
Mississippi Valley St U	834	12	497	0	241	84	0	0	0
U Mississippi, All Camp	44,927	3,328	10,177	0	224	25,918	206	1,216	3,858
U Southern Mississippi	17,706	405	4,113	6,238	178	1,245	219	532	4,776
Private, total	1,033	0	176	0	169	688	0	0	0
Rust College	138	0	0	0	0	138	0	0	0
Tougaloo College	895	0	176	0	169	550	0	0	0
Missouri, total	614,101	48,941	23,910	7,269	12,972	489,009	8,349	20,931	2,720
Public, total	219,390	41,587	13,345	2,325	3,758	133,596	6,622	16,714	1,443
Lincoln University	2,502	0	0	0	0	2,502	0	0	0
Southwest Missouri St U	1,324e	27e	137e	48e	58e	679e	0e	375e	0e

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Missouri, continued:									
Public, continued:									
Southeast Missouri St U	233	0	162	16	0	55	0	0	0
Truman State University	738i	0i	79i	0i	18i	88i	0i	0i	553i
U of Missouri Columbia	158,861	21,818	5,215	1,088	1,436	112,396	4,515	12,393	0
U of Missouri Kansas City	19,647	44	959	116	1,301	14,979	554	1,059	635
U of Missouri Rolla	25,968	19,698	4,368	1,057	670	156	4	5	10
U of Missouri St Louis	9,898	0	2,425	0	275	2,544	1,549	2,882	223
U of Missouri Sys Admn	219	0	0	0	0	197	0	0	22
Private, total	394,711	7,354	10,565	4,944	9,214	355,413	1,727	4,217	1,277
Forest Inst of Prof Psy	0	0	0	0	0	0	0	0	0
Kirksville Col Osteo Med	816	0	0	0	0	816	0	0	0
Saint Louis University	31,002	0	30	570	137	29,888	64	0	313
U of Health Sci (MO)	677	0	0	0	0	677	0	0	0
Washington University	362,216	7,354	10,535	4,374	9,077	324,032	1,663	4,217	964
Montana, total	99,069	10,834	12,112	3,252	2,241	60,182	185	5,307	4,956
Public, total	99,069	10,834	12,112	3,252	2,241	60,182	185	5,307	4,956
MT Tech of the U of MT	4,155	1,465	162	2,347	0	181	0	0	0
Montana St U Bozeman	65,324	9,369	10,712	455	236	39,492	0	2,721	2,339
Univ of Montana, The	29,590	0	1,238	450	2,005	20,509	185	2,586	2,617
Nebraska, total	208,480	23,727	11,853	12,813	6,070	131,547	2,193	12,100	8,177
Public, total	192,639	23,727	11,601	12,726	6,070	116,083	2,193	12,062	8,177
U of Nebraska Med Ctr	51,547	0	0	0	0	51,547	0	0	0
U of Nebraska at Kearney	146	0	82	3	0	25	4	5	27
U of Nebraska at Lincoln	136,023	22,365	10,888	12,710	5,219	64,285	1,901	10,505	8,150
U of Nebraska at Omaha	4,923	1,362	631	13	851	226	288	1,552	0
Private, total	15,841	0	252	87	0	15,464	0	38	0
Creighton University	15,841	0	252	87	0	15,464	0	38	0
Nevada, total	106,340	7,330	10,582	36,585	1,454	29,262	1,164	3,170	16,793
Public, total	106,340	7,330	10,582	36,585	1,454	29,262	1,164	3,170	16,793
Desert Research Institute	25,877	0	0	19,454	0	0	0	0	6,423
U of Nevada Las Vegas	24,215	3,062	4,687	10,579	794	3,248	54	1,791	0
U of Nevada Reno	56,248	4,268	5,895	6,552	660	26,014	1,110	1,379	10,370
New Hampshire, total	150,982	21,153	5,165	37,169	2,976	73,359	4,400	5,448	1,312
Public, total	72,108	12,462	2,277	36,418	820	13,556	1,300	4,781	494
U of New Hampshire	72,108	12,462	2,277	36,418	820	13,556	1,300	4,781	494
Private, total	78,874	8,691	2,888	751	2,156	59,803	3,100	667	818
Dartmouth College	78,874	8,691	2,888	751	2,156	59,803	3,100	667	818
New Jersey, total	567,666	100,991	54,321	36,990	26,180	264,691	13,030	41,815	29,648
Public, total	414,510	51,955	25,221	21,017	16,228	240,423	7,761	22,709	29,196
Montclair State U	396	0	71	81	59	171	3	1	10
NJ Inst of Technology	47,895	18,274	1,382	0	1,009	0	0	0	27,230
Rutgers the State U NJ	225,268	33,681	23,768	20,936	15,160	99,301	7,758	22,708	1,956
U Med & Dent of NJ	140,951	0	0	0	0	140,951	0	0	0
Private, total	153,156	49,036	29,100	15,973	9,952	24,268	5,269	19,106	452
Fairleigh Dickinson U	158	0i	10i	0i	8i	33i	8i	71i	28i
Monmouth University	357e	0e	0e	1e	353e	3e	0e	0e	0e
Princeton University	134,875	41,026	27,100	12,946	8,815	23,185	5,259	16,544	0
Rider University	891	0	32	84	0	349	2	0	424
Seton Hall University	996	0i	298i	0i	0i	698i	0i	0i	0i
Stevens Inst of Tech	15,879	8,010	1,660	2,942	776	0	0	2,491	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
New Mexico, total	246,258	91,101	22,699	11,438	7,794	66,048	6,424	7,297	33,457
Public, total	246,258	91,101	22,699	11,438	7,794	66,048	6,424	7,297	33,457
NM Inst Mining & Tech	23,636	14,393	2,151	6,535	216	308	33	0	0
New Mexico Highlands U	8,947	3,454	4,974	10	0	295	84	1	129
New Mexico State Univ	79,695	46,790	4,574	2,940	4,574	19,165	435	722	495
University of New Mexico	133,980	26,464	11,000	1,953	3,004	46,280	5,872	6,574	32,833
New York, total	2,290,812	249,195	202,739	91,010	84,020	1,532,176	54,535	64,692	12,445
Public, total	584,808	67,241	66,341	32,165	22,815	348,053	19,901	25,304	2,988
CUNY Baruch Col	375	0	59	0	46	14	3	253	0
CUNY Brooklyn College	6,342	0	1,460	184	1,516	1,042	1,441	699	0
CUNY City College	17,059	4,388	6,253	1,109	1,423	3,327	363	196	0
CUNY Col Staten Island	1,208	19	993	26	121	33	16	0	0
CUNY Grad Ctr	739	0	3	0	133	26	163	98	316
CUNY H H Lehman Col	1,632	0	600	46	293	362	303	28	0
CUNY Hunter College	15,047	0	4,267	536	153	5,719	2,143	2,076	153
CUNY John Jay Col Cr Just	1,274	0	7	3	0	25	1	324	914
CUNY Medger Evers Col	291	0	228	8	0	46	0	9	0
CUNY Queens College	3,827	0	1,485	52	269	813	350	467	391
CUNY York College	1,341	0	3	0	11	1,327	0	0	0
SUNY Col Env Sci Frstry	26,663	9,412e	2,080e	2,746e	0e	12,345e	0e	80e	0e
SUNY Col Old Westbury	1,310	0	392	0	169	749	0	0	0
SUNY Col at Brockport	722	0	38	128	16	534	0	6	0
SUNY Col at Buffalo	1,683	0	113	741	0	270	31	510	18
SUNY Col at Cortland	362	0	137	48	0	48	4	125	0
SUNY Col at Fredonia	194	0	139	0	20	20	0	15	0
SUNY Col at Geneseo	686	0	396	25	75	93	87	10	0
SUNY Col at Oswego	744	0	15	235	30	0	464	0	0
SUNY Col at Plattsburgh	996	0	115	367	32	455	5	22	0
SUNY Col of Optometry	1,001	0	0	0	0	1,001	0	0	0
SUNY Hlth Sci Ctr Brklyn	31,626	0	0	0	0	31,626	0	0	0
SUNY Purchase College	139	0	63	19	0	57	0	0	0
SUNY Upstate Med U	17,095	0	0	0	0	17,095	0	0	0
SUNY at Albany	82,792	0	10,423	6,379	953	55,159	2,489	7,389	0
SUNY at Binghamton	18,661	5,547	2,485	848	1,018	2,141	2,991	3,537	94
SUNY at Buffalo	187,692	32,301	9,790	1,286	8,678	124,168	4,990	6,301	178
SUNY at Stony Brook	163,307	15,574	24,797	17,379	7,859	89,558	4,057	3,159	924
Private, total	1,706,004	181,954	136,398	58,845	61,205	1,184,123	34,634	39,388	9,457
Adelphi University	169	0	115	0	0	52	2	0	0
Albany Col of Pharmacy	1,360	0	0	0	0	1,360	0	0	0
Albany Medical College	11,522	0	0	0	0	11,522	0	0	0
Alfred University	6,442	6,442	0	0	0	0	0	0	0
Barnard College	1,347	0	214	0	71	325	510	227	0
Clarkson University	7,751	5,313	2,001	0	296	69	72	0	0
Colgate University	1,664	0	214	464	108	634	113	131	0
Columbia U in City of NY	319,693	16,393	26,104	49,198	6,963	212,281	3,066	5,413	275
Cooper Union	284	284	0	0	0	0	0	0	0
Cornell University	410,393	54,860	70,153	4,221	18,961	243,158	6,077	12,963	0
Fordham University	3,584	0	114	102	2	780	1,234	1,352	0
Hamilton College	1,027	0	538	142	0	53	100	194	0
Hofstra University	787	658	13	0	0	116	0	0	0
Ithaca College	2,565	0	84	0	1,770	559	113	39	0
Long Island University	1,267	0	734	74	14	255	99	91	0
Manhattan College	509	489	20	0	0	0	0	0	0
Mt Sinai Sch Med	149,846	0	0	0	0	149,846	0	0	0
New School University	5,209	0	0	0	0	661	101	4,447	0
New York Inst Technology	390	10	0	2	44	334	0	0	0
New York Medical College	23,348	0	0	0	0	23,348	0	0	0
New York University	182,205	0	5,200	922	11,475	147,489	9,909	5,566	1,644

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
New York, continued:									
Private, continued:									
Pace University All Cmp	289	7	0	30	0	249	0	0	3
Polytechnic University	15,500	8,109	168	0	1,402	0	0	0	5,821
Rensselaer Polytech Inst	40,762	31,036	5,061	1,209	1,799	1,067	13	113	464
Rochester Inst of Tech	4,755	472	2,311	448	0	1,480	0	0	44
Rockefeller U, The	124,138	0	4,066	0	2,993	117,079	0	0	0
Skidmore College	314	0	24	0	21	139	104	26	0
St John's University (NY)	1,184	0	0	9	5	898	257	15	0
Syracuse University	39,468	10,653	5,358	1,184	12,058	4,502	1,865	2,784	1,064
Teachers Col, Columbia U	8,561	0	0	0	417	660	2,992	4,492	0
Union College (NY)	1,002	337	88	133	57	272	30	85	0
University of Rochester	197,335	46,494	13,461	707	2,650	124,571	7,975	1,387	90
Vassar College	1,716	397i	357i	0i	99i	746i	2i	63i	52i
Yeshiva University	139,618	0	0	0	0	139,618	0	0	0
North Carolina, total	1,040,017	104,866	54,819	41,790	33,894	743,682	9,004	46,789	5,173
Public, total	595,354	89,367	40,759	34,216	29,599	359,499	5,349	31,964	4,601
Appalachian State U	694	1	56	49	45	268	11	264	0
East Carolina University	8,461	0	367	818	140	6,860	3	273	0
Elizabeth City State U	1,558	528	4	0	753	273	0	0	0
Fayetteville State U	507	0	30	0	0	371	106	0	0
NC A&T State University	13,400	7,946	468	0	297	4,302	132	255	0
NC State University	277,946	76,839	20,814	15,699	16,014	136,438	917	6,918	4,307
North Carolina Central U	808i	0i	206i	0i	0i	528i	0i	74i	0i
U of NC Asheville	861	0	14	814	0	19	0	14	0
U of NC Chapel Hill	269,072	0	17,580	11,382	9,429	204,646	3,710	22,325	0
U of NC Charlotte	7,790	4,048	297	159	1,977	893	12	360	44
U of NC Greensboro	2,368e	5e	93e	0e	56e	1,078e	248e	888e	0e
U of NC Wilmington	7,859	0	513	5,070	0	2,025	205	46	0
Western Carolina U	580	0	114	225	0	156	5	80	0
Winston Salem State U	3,450	0	203	0	888	1,642	0	467	250
Private, total	444,663	15,499	14,060	7,574	4,295	384,183	3,655	14,825	572
Bennett College	811i	0i	151i	0i	50i	264i	10i	150i	186i
Duke University	356,625	15,249	13,288	7,556	4,087	298,144	3,645	14,656	0
Johnson C Smith U	287	250	0	18	0	0	0	19	0
Shaw University	100e	0e	0e	0e	0e	100e	0e	0e	0e
Wake Forest University	86,840	0	621	0	158	85,675	0	0	386
North Dakota, total	67,406	9,103	4,813	1,777	1,175	42,341	475	5,227	2,495
Public, total	67,406	9,103	4,813	1,777	1,175	42,341	475	5,227	2,495
North Dakota State U	50,063	1,133	3,844	137	1,073	37,124	475	4,769	1,508
U of North Dakota	17,343	7,970	969	1,640	102	5,217	0	458	987
Ohio, total	918,500	202,741	68,994	11,590	31,233	535,160	11,569	43,121	14,092
Public, total	681,312	140,324	59,567	10,847	30,592	380,048	10,534	35,974	13,426
Air Force Inst of Tech	7,771	3,127	1,236	487	1,443	0	0	0	1,478
Bowling Green State U	3,454e	232e	1,102e	103e	67e	1,040e	623e	100e	187e
Central State University	560e	225i	8i	213i	33i	27i	9i	10i	35i
Cleveland State U	10,214	2,650	813	301	2	640	190	4,775	843
Kent State University	10,817	257	6,620	446	562	1,020	1,226	686	0
Med Col of Ohio	13,747	0	0	0	0	13,747	0	0	0
Miami University (OH)	10,674	334i	2,711i	258i	1i	2,374i	612i	1,938i	2,446i
N.E. Ohio Univ Col of Med	4,011	0	0	0	0	4,011	0	0	0
Ohio State University	361,399	82,705	24,446	7,512	22,801	194,937	4,480	20,035	4,483
Ohio University	23,767	10,487	3,872	753	291	5,650	968	900	846
University of Akron	19,495	6,039	8,279	133	426	797	100	3,721	0
University of Cincinnati	172,085	24,127	5,079	213	466	135,543	785	3,381	2,491

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Ohio, continued:									
Public, continued:									
University of Toledo	13,694	6,873	2,980	44	35	2,864	372	248	278
Wright State University	29,092	3,216	2,151	384	4,465	17,350	1,169	180	177
Youngstown State Univ	532	52	270	0	0	48	0	0	162
Private, total	237,188	62,417	9,427	743	641	155,112	1,035	7,147	666
Antioch University	0	0	0	0	0	0	0	0	0
Case Western Reserve U	193,057	25,518	6,496	438	374	153,776	682	5,773	0
College of Wooster	593	0	524	55	0	14	0	0	0
Denison University	328	0	285	5	0	25	3	10	0
John Carroll University	1,072e	212i	143i	11i	68i	529i	23i	67i	19i
Oberlin College	691	82i	130i	15i	94i	249i	27i	75i	19i
Ohio Wesleyan University	255e	0e	92e	0e	6e	157e	0e	0e	0e
U of Findlay	350	0	325	0	0	25	0	0	0
Union Institute, The	1,217	0	0	0	0	0	0	1,217	0
University of Dayton	39,345	36,325	1,432	219	99	337	300	5	628
Wilberforce University	280i	280i	0i	0i	0i	0i	0i	0i	0i
Oklahoma, total	252,419	37,799	23,547	32,162	5,841	116,986	14,545	17,775	3,764
Public, total	242,249	31,935	21,866	31,308	5,433	115,825	14,416	17,702	3,764
Langston University	2,553	0	0	0	0	2,553	0	0	0
Oklahoma State University	88,285	16,752	6,282	2,139	1,886	49,269	415	7,796	3,746
U of Central Oklahoma	509	20	35	11	322	19	74	10	18
University of Oklahoma	150,902	15,163	15,549	29,158	3,225	63,984	13,927	9,896	0
Private, total	10,170	5,864	1,681	854	408	1,161	129	73	0
Oral Roberts University	116	25	10	0	0	81	0	0	0
University of Tulsa	10,054	5,839	1,671	854	408	1,080	129	73	0
Oregon, total	346,149	20,774	17,388	40,838	15,588	229,030	7,728	14,242	561
Public, total	324,966	17,055	13,433	37,228	7,251	227,972	7,724	13,742	561
Oregon Health Sciences U	131,486	0	0	0	0	126,445	5,041	0	0
Oregon State University	140,751	13,903	5,479	33,940	2,299	82,485	21	2,112	512
Portland State University	16,494	2,186	626	1,117	1,414	1,870	137	9,095	49
Southern Oregon Univ	301	0	61	1	0	223	0	16	0
University of Oregon	35,934	966	7,267	2,170	3,538	16,949	2,525	2,519	0
Private, total	21,183	3,719	3,955	3,610	8,337	1,058	4	500	0
Lewis and Clark College	529	0	208	0	3	36	0	282	0
OR Grad Inst Sci & Tech	18,856	3,613	3,414	3,582	8,194	0	0	53	0
Pacific University	264	0	77	0	5	182	0	0	0
Reed College	716	0	161	0	135	301	4	115	0
University of Portland	552	106	5	0	0	391	0	50	0
Willamette University	266	0	90	28	0	148	0	0	0
Pennsylvania, total	1,549,050	266,299	103,561	27,592	85,843	929,299	31,711	79,659	25,086
Public, total	777,818	175,808	60,417	21,401	13,356	432,374	20,141	35,722	18,599
East Stroudsburg U of PA	642	0	325	111	0	125	0	81	0
Indiana U of PA All Cmp	731	10	189	75	1	42	8	406	0
Kutztown U of PA	92	0	5	20	0	65	0	2	0
Lincoln University (PA)	709	0	670	0	0	39	0	0	0
Pennsylvania State U	427,575	162,795	42,461	20,396	9,628	147,340	11,227	16,529	17,199
Temple University	52,466	1,145	4,676	168	503	30,675	4,360	10,939	0
University of Pittsburgh	294,809	11,858	11,914	537	3,192	253,612	4,546	7,750	1,400
West Chester U of PA	794	0	177	94	32	476	0	15	0
Private, total	771,232	90,491	43,144	6,191	72,487	496,925	11,570	43,937	6,487
Allegheny College	318	0	77	26	0	214	1	0	0
Bryn Mawr College	2,791	0	1,190	211	212	427	172	579	0
Bucknell University	1,835	1,220	252	2	73	252	22	14	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Pennsylvania, continued:									
Private, continued:									
Carnegie Mellon U	137,980	36,892	7,942	3,038	58,595	14,578	5,880	9,193	1,862
Dickinson College	739	0	287	100	103	154	50	45	0
Drexel University	24,876	15,828	1,583	452	2,519	527	927	3,040	0
Duquesne University	2,662	0	1,060	26	26	1,424	28	98	0
Franklin & Marshall Coll	1,188	0	363	88	0	376	216	5	140
Haverford College	1,191	0	442	0	94	605	44	6	0
Juniata College	168	0	32	4	0	132	0	0	0
La Salle University	126	0	0	0	27	0	3	0	96
Lafayette College	665	258	34	53	127	57	56	28	52
Lehigh University	25,506	19,503	3,158	1,247	362	1,075	126	35	0
MCP Hahnemann University ..	41,670	0	0	0	0	41,267	403	0	0
PA College of Optometry	581	0	0	0	0	581	0	0	0
Phila Col Osteopathic Med	930	0	0	0	0	930	0	0	0
St. Joseph's Univ	975	0	115	0	21	185	637	17	0
Swarthmore College	996e	130e	484e	0e	30e	295e	22e	35e	0e
Thomas Jefferson U	89,626	0	0	0	0	89,626	0	0	0
U of Pennsylvania	430,389	13,315	24,780	847	10,118	343,388	2,903	30,842	4,196
U of Sci in Philadelphia	532	0i	0i	0i	0i	532i	0i	0i	0i
Villanova University	5,280	3,345	1,345	60	150	300	80	0	0
Widener U All Campuses	208	0	0	37	30	0	0	0	141
Rhode Island, total	129,697	13,716	9,667	28,582	12,268	49,873	5,582	5,120	4,889
Public, total	48,135	3,758	851	23,212	183	11,311	3,434	497	4,889
U of Rhode Island	48,135	3,758	851	23,212	183	11,311	3,434	497	4,889
Private, total	81,562	9,958	8,816	5,370	12,085	38,562	2,148	4,623	0
Brown University	81,476	9,958	8,806	5,370	12,085	38,501	2,143	4,613	0
Providence College	86e	0e	10e	0e	0e	61e	5e	10e	0e
South Carolina, total	294,184	58,644	22,903	18,793	14,600	154,308	4,573	15,660	4,703
Public, total	291,693	58,639	21,953	18,780	14,530	153,649	4,312	15,127	4,703
Clemson University	114,903	35,374	6,996	1,094	3,816	62,486	130	4,518	489
Coastal Carolina U	1,187	120i	206i	75i	158i	556i	5i	35i	32i
College of Charleston	3,047	0	432	1,743	148	353	164	207	0
Med U of South Carolina	65,243	0	0	0	0	65,243	0	0	0
South Carolina State U	2,915	50i	1,398i	0i	0i	640i	0i	827i	0i
U of South Carolina	104,398	23,095	12,921	15,868	10,408	24,371	4,013	9,540	4,182
Private, total	2,491	5	950	13	70	659	261	533	0
Benedict College	1,143	0i	105i	0i	0i	505i	0i	533i	0i
Clayton College	555e	5e	400e	0e	50e	100e	0e	0e	0e
Furman University	793	0	445	13	20	54	261	0	0
South Dakota, total	27,269	2,980	1,534	3,626	22	16,644	98	1,578	787
Public, total	27,269	2,980	1,534	3,626	22	16,644	98	1,578	787
SD Sch of Mines & Tech	5,743	2,038	61	2,857	0	0	0	0	787
South Dakota State U	16,784	942	555	669	17	14,114	0	487	0
U of South Dakota	4,742	0	918	100	5	2,530	98	1,091	0
Tennessee, total	405,013	59,898	30,520	14,269	12,457	255,999	12,281	16,363	3,226
Public, total	218,461	46,975	14,329	13,680	10,505	109,067	9,607	11,072	3,226
East Tennessee State U	6,494	163	149	46	90	4,829	25	651	541
Middle Tennessee State U	733	150	290	199	0	68	0	26	0
Tennessee State U	11,285	3,459	1,386	0	545	5,494	0	401	0
Tennessee Tech U	8,878	7,367	610	10	67	769	30	25	0
U of Tennessee	162,286	32,802	10,900	9,327	7,435	95,004	170	5,212	1,436
U of Tennessee Chattahoo ..	1,404	126	33	3	1,156	70	7	9	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Tennessee, continued:									
Public, continued:									
U of Tennessee Martin	0	0	0	0	0	0	0	0	0
Univ of Memphis, The	27,381	2,908	961	4,095	1,212	2,833	9,375	4,748	1,249
Private, total	186,552	12,923	16,191	589	1,952	146,932	2,674	5,291	0
Fisk University	3,401	0	3,326	0	75	0	0	0	0
Le Moyne-Owen Coll	1,700	700	0	0	1,000	0	0	0	0
Meharry Medical College	9,460e	0e	0e	320e	7e	9,133e	0e	0e	0e
Southern Col of Optometry	65	0	0	0	0	65	0	0	0
Vanderbilt University	171,926	12,223	12,865	269	870	137,734	2,674	5,291	0
Texas, total	2,039,642	302,148	129,765	137,630	78,743	1,327,228	13,993	37,688	12,447
Public, total	1,642,944	290,600	114,094	133,639	64,036	982,117	11,404	36,680	10,374
Lamar University	3,204	2,939	217	0	19	25	4	0	0
Prairie View A&M U	9,464	3,207	581	2	567	4,675	0	432	0
Sam Houston State U	3,053	0	194	777	25	229	15	1,803	10
Southwest Texas St Univ	4,507	19	2,503	0	295	1,564	7	119	0
Stephen F Austin St U	5,289	0	232	0	411	4,348	0	139	159
Sul Ross State University	796	0	0	62	0	396	0	328	10
TX A&M U Sys Hlth Sci Ctr	25,736	0	0	0	0	25,719	0	17	0
Tarleton State University	3,872	0	5	3,717	15	111	0	6	18
Texas A&M U Commerce	327	18	7	80	9	210	3	0	0
Texas A&M U Corpus Chri	5,999	2,817	251	1,437	128	335	0	105	926
Texas A&M Univ Kingsville	7,404	1,114	105	625	1	5,437	0	0	122
Texas A&M University	397,268	118,494	24,131	85,330	6,993	146,600	2,752	7,227	5,741
Texas Southern U	2,182	62	380	129	144	1,341	0	0	126
Texas Tech University	68,224	17,363	5,437	8,139	2,117	28,017	253	5,946	952
Texas Woman's University	3,005	0	60	0	4	2,892	1	48	0
U North TX Hlth Sci Ctr	10,131	0	0	0	0	9,919	0	0	212
U TX Hlth Sci Ctr San Ant	103,824	0	0	0	0	103,824	0	0	0
U TX MD Anderson Cnrc Ctr	182,196	0	3,707	0	5,142	173,347	0	0	0
U TX Med Br at Galveston	97,896	1,490	0	0	0	96,406	0	0	0
U TX SW Med Ctr at Dallas	189,216	0	0	0	0	189,216	0	0	0
U TX at Arlington	10,723	5,870	2,513	214	111	1,375	292	348	0
U TX at Austin	272,811	100,294	56,338	24,134	39,361	39,125	3,423	9,617	519
U TX at Dallas	15,684	2,816	4,202	1,436	908	3,642	0	1,545	1,135
U TX at El Paso	20,877	8,322	1,546	4,423	1,309	3,340	807	1,130	0
U TX at San Antonio	10,292	694	192	9	963	5,086	0	3,348	0
U of Houston Clear Lake	7,091	6,194	106	167	438	105	51	1	29
U of Houston Downtown	837	54	20	26	493	244	0	0	0
U of TX Pan American	1,688	434	167	25	9	946	54	53	0
UT Houston Hlth Sci Ctr	119,587	0	0	0	0	119,587	0	0	0
University of Houston	48,902	18,081	8,571	1,239	4,054	11,520	2,954	2,088	395
University of North Texas	9,108	160	2,544	1,653	515	1,073	788	2,375	0
West Texas A&M U	1,751	158	85	15	5	1,463	0	5	20
Private, total	396,698	11,548	15,671	3,991	14,707	345,111	2,589	1,008	2,073
Abilene Christian Univ	252	0	200	0	7	40	5	0	0
Baylor Col of Dentistry	2,718	0	0	0	0	2,718	0	0	0
Baylor Col of Medicine	334,175	0	0	0	0	334,175	0	0	0
Baylor University	3,307	1	1,067	284	95	340	4	110	1,406
Jarvis Christian College	55	0i	0i	0i	0i	55i	0i	0i	0i
Rice University	41,840	9,031	11,909	1,354	13,399	5,364	374	409	0
Southern Methodist U	9,713	2,345	1,244	2,344	1,118	1,669	163	450	380
St. Mary's University	287	0i	0i	0i	0i	0i	0i	287i	0
Texas Christian U	3,050	171	750	8	27	37	2,043	14	0
Trinity University	1,241	0	460	1	61	713	0	6	0
University of Dallas	60	0	41	0	0	0	0	19	0
Wiley College	0	0	0	0	0	0	0	0	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Utah, total	308,059	72,618	23,080	12,940	17,962	163,298	3,391	6,258	8,512
Public, total	290,822	66,367	19,917	12,493	16,581	159,883	2,903	4,390	8,288
University of Utah	187,661	25,293	15,453	4,040	14,970	124,257	1,836	1,812	0
Utah State University	103,161	41,074	4,464	8,453	1,611	35,626	1,067	2,578	8,288
Private, total	17,237	6,251	3,163	447	1,381	3,415	488	1,868	224
Brigham Young University	17,237	6,251	3,163	447	1,381	3,415	488	1,868	224
Vermont, total	64,762	1,299	1,849	492	1,392	56,597	938	206	1,989
Public, total	63,391	1,279	1,107	413	1,392	56,067	938	206	1,989
University of Vermont	63,391	1,279	1,107	413	1,392	56,067	938	206	1,989
Private, total	1,371	20	742	79	0	530	0	0	0
Middlebury College	1,371e	20e	742e	79e	0e	530e	0e	0e	0e
Virginia, total	587,718	118,972	45,418	61,300	15,593	314,516	10,500	20,339	1,080
Public, total	550,609	115,692	40,778	57,574	14,972	290,495	10,241	20,055	802
Col of William & Mary	33,299	0	5,126	23,938	1,134	1,515	355	1,231	0
George Mason University	26,793	6,286	405	5,059	1,436	4,485	1,903	7,219	0
James Madison University	1,121	10	196	33	318	360	0	0	204
Norfolk State University	3,408	210	2,886	0	219	73	0	20	0
Old Dominion University	25,058	11,712	1,420	5,788	1,562	3,349	673	554	0
Radford University	624	0	0	195	32	20	81	21	275
University of Virginia	174,522	26,910	13,233	5,692	4,912	117,971	3,002	2,479	323
VA Polytech Inst & St U	192,672	66,963	10,223	16,786	4,874	84,265	2,142	7,419	0
Virginia Commonwealth U	88,220	3,259	5,877	83	485	75,323	2,081	1,112	0
Virginia Military Inst	470	342	115	0	0	9	4	0	0
Virginia State University	4,422	0	1,297	0	0	3,125	0	0	0
Private, total	37,109	3,280	4,640	3,726	621	24,021	259	284	278
Eastern VA Med School	23,299	0	0	0	0	23,299	0	0	0
Hampton University	9,323	1,266	3,826	3,687	345	0	0	199	0
Institute of Textile Tech	2,638	1,976	452	0	210	0	0	0	0
University of Richmond	1,178	0	192	0	23	451	216	21	275
Virginia Union University	671i	38i	170i	39i	43i	271i	43i	64i	3i
Washington, total	642,934	56,784	33,743	67,605	10,010	445,344	9,933	18,649	866
Public, total	642,451	56,784	33,487	67,455	10,010	445,267	9,933	18,649	866
Central Washington U	2,006	0	464	847	3	214	16	172	290
E Washington Univ	2,108	0	668	93	158	382	5	802	0
Evergreen State Coll	766	142i	112i	111i	74i	223i	25i	45i	34i
U of Washington	529,342	39,009	27,122	64,112	9,238	372,339	9,493	8,029	0
W Washington Univ	3,433	973	240	396	101	1,395	177	151	0
Washington State U	104,796	16,660	4,881	1,896	436	70,714	217	9,450	542
Private, total	483	0	256	150	0	77	0	0	0
Whitman College	483	0	256	150	0	77	0	0	0
West Virginia, total	73,420	20,688	4,693	5,693	2,212	35,482	275	138	4,239
Public, total	72,658	20,688	4,679	5,693	2,204	34,742	275	138	4,239
Bluefield State College	0	0	0	0	0	0	0	0	0
Fairmont State College	110	0	0	0	0	73	0	37	0
Marshall University	6,231	128	377	22	202	1,861	0	85	3,556
WV Sch of Osteo Med	132	0	0	0	0	132	0	0	0
West Virginia State Col	55e	0e	7e	0e	0e	48e	0e	0e	0e
West Virginia University	66,130	20,560	4,295	5,671	2,002	32,628	275	16	683
Private, total	762	0	14	0	8	740	0	0	0
Salem-Tekyo University	762	0	14	0	8	740	0	0	0

See explanatory information and SOURCE at end of table.

Table B-31. R&D expenditures at universities and colleges, by State, control, and science and engineering field: fiscal year 2000

[Dollars in thousands]

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State, control, and institution	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Wisconsin, total	661,470	79,445	52,268	32,740	13,883	419,216	24,090	38,256	1,572
Public, total	581,216	74,690	51,022	32,740	13,553	346,438	23,953	37,248	1,572
U WI-Eau Claire	684	0	296	48	23	193	0	84	40
U WI-Green Bay	543	0	0	229	0	100	0	105	109
U WI-La Crosse	1,404	0	11	1	17	667	0	708	0
U WI-Madison	554,361	71,293	46,678	28,001	12,274	341,779	23,237	31,083	16
U WI-Milwaukee	20,010	3,390	3,854	3,675	1,166	2,117	590	5,042	176
U WI-Oshkosh	585	0	50	47	0	254	63	62	109
U WI-Parkside	362	0	36	19	1	250	0	33	23
U WI-River Falls	152	1	6	0	21	117	0	7	0
U WI-Stevens Point	1,227	6	3	411	0	802	2	3	0
U WI-Stout	1,236	0	62	0	29	22	1	23	1,099
U WI-Superior	380	0	14	308	0	17	0	41	0
U WI-Whitewater	272	0	12	1	22	120	60	57	0
Private, total	80,254	4,755	1,246	0	330	72,778	137	1,008	0
Marquette University	7,653	2,804	1,222	0	330	2,164	137	996	0
Medical Col of Wisconsin	70,581	0	0	0	0	70,581	0	0	0
Milwaukee School of Eng	2,020	1,951	24	0	0	33	0	12	0
Wyoming, total	43,094	4,972	3,164	7,968	568	17,512	305	1,097	7,508
Public, total	43,094	4,972	3,164	7,968	568	17,512	305	1,097	7,508
University of Wyoming	43,094	4,972	3,164	7,968	568	17,512	305	1,097	7,508
Guam, total	4,130	0	0	1,232	0	2,332	0	0	566
Public, total	4,130	0	0	1,232	0	2,332	0	0	566
University of Guam	4,130	0	0	1,232	0	2,332	0	0	566
Puerto Rico, total	74,529	7,704	4,069	5,364	572	52,161	1,372	2,082	1,205
Public, total	65,364	7,704	4,005	5,364	572	43,060	1,372	2,082	1,205
U PR Mayaguez Campus	34,683	7,398	2,396	3,642	470	19,339	0	233	1,205
U PR Med Sci Campus	21,373	0	0	0	0	21,373	0	0	0
U PR Rio Piedras Campus	9,308	306	1,609	1,722	102	2,348	1,372	1,849	0
Private, total	9,165	0	64	0	0	9,101	0	0	0
Ponce School of Medicine	3,403	0	0	0	0	3,403	0	0	0
Pont Catholic U of PR, The	85	0	64	0	0	21	0	0	0
U Ctrl Del Caribe Esc Med	5,677	0	0	0	0	5,677	0	0	0
Virgin Islands, total	3,310	0	0	442	819	1,954	0	95	0
Public, total	3,310	0	0	442	819	1,954	0	95	0
U of the Virgin Islands	3,310e	0e	0e	442e	819e	1,954e	0e	95e	0e

KEY: e = estimated
i = imputed

NOTES: Because of rounding, detail may not add to totals.

Beginning in fiscal year 1998, this table reports data for all institutions. In prior years this table reported on doctorate-granting institutions only.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
Total, all institutions	19,950,563	21,022,253	22,164,533	23,038,788	24,361,885	25,845,936	27,529,206	30,062,371
1 Johns Hopkins U ¹	745,515	784,043	788,687	798,468	829,241	853,620	874,518	901,156
2 U WI-Madison	372,362	392,718	403,541	412,570	419,810	443,695	499,688	554,361
3 University of Michigan	425,868	430,778	443,070	468,876	483,485	496,761	508,619	551,556
4 U CA Los Angeles	277,974	279,869	303,668	354,645	398,865	447,367	477,620	530,826
5 U of Washington	335,329	353,945	389,160	406,472	409,959	438,191	482,659	529,342
6 U CA San Diego	307,051	331,901	357,333	371,509	376,655	418,790	461,632	518,559
7 U CA Berkeley ²	284,346	289,632	291,200	316,320	377,376	420,426	451,539	518,514
8 Stanford University	306,676	318,561	318,871	351,526	395,310	410,309	426,549	454,780
9 U CA San Francisco	314,599	312,393	329,742	320,757	343,384	379,970	417,095	443,013
10 U of Pennsylvania	233,829	251,461	272,393	288,430	296,141	333,477	383,569	430,389
Total, 1st 10 institutions	3,603,549	3,745,301	3,897,665	4,089,573	4,330,226	4,642,606	4,983,488	5,432,496
11 Pennsylvania State U	282,659	302,997	330,881	337,938	339,955	362,643	379,402	427,575
12 MA Institute of Tech ²	377,413	374,768	370,800	380,612	410,930	413,098	420,306	426,299
13 University of Minnesota	332,033	317,865	336,524	341,179	363,095	360,323	371,384	411,380
14 Cornell University ²	310,949	312,683	343,786	339,534	351,030	363,511	395,552	410,393
15 Texas A&M University	322,691	355,750	362,539	366,983	366,798	393,720	402,203	397,268
16 U of IL Urbana-Champaign	252,811	245,407	246,174	268,995	286,470	329,266	358,247	373,024
17 U CA Davis	223,758	230,147	244,116	254,604	267,341	288,796	307,950	364,789
18 Washington University	179,329	192,378	209,100	218,640	262,426	269,550	315,606	362,216
19 Ohio State University	221,460	230,515	246,287	262,147	289,100	301,518	322,810	361,399
20 Duke University	202,434	220,220	218,703	242,235	251,536	282,388	348,274	356,625
Total, 1st 20 institutions	6,309,086	6,528,031	6,806,575	7,102,440	7,518,907	8,007,419	8,605,222	9,323,464
21 University of Colorado	193,217	234,267	243,932	251,301	269,816	311,203	318,618	353,528
22 University of Arizona	235,528	269,939	292,351	279,656	285,278	302,328	320,245	345,090
23 Harvard University	257,207	278,459e	276,422	282,443	299,961	306,100	326,193	341,810
24 Baylor Col of Medicine	172,252	186,865	190,375	184,613	192,744	216,528	272,198	334,175
25 Columbia U in City of NY	204,710	236,417	244,991	236,403	244,337	267,007	279,587	319,693
26 University of Florida	142,966	148,592	199,216	255,099	272,373	274,862	304,447	313,692
27 Georgia Institute of Tech	175,873	193,630	211,875	225,633	240,237	259,233	263,725	304,511
28 U of Southern California	200,822	207,275	222,159	244,258	259,246	268,806	280,741	300,445
29 Yale University	226,850	224,939	231,819	234,901	245,536	262,680	274,050	296,706
30 University of Pittsburgh	178,778	185,377	186,457	189,826	202,533	213,842	249,477	294,809
Total, 1st 30 institutions	8,297,289	8,693,791	9,106,172	9,486,573	10,030,968	10,690,008	11,494,503	12,527,923
31 NC State University	155,624	173,407	180,191	190,748	229,292	254,254	270,621	277,946
32 U TX at Austin	249,158	260,602	228,676	241,606	239,021	244,843	258,122	272,811
33 U of NC Chapel Hill	179,157	201,622	209,118	208,529	221,380	235,296	252,767	269,072
34 University of Georgia	172,274	187,849	206,256	209,357	225,457	217,945	237,493	258,476
35 U MD at College Park	229,344	198,348	209,945	216,957	215,927	223,190	257,628	252,429
36 Louisiana State U System	158,823	165,857	186,723	196,328	205,441	208,928	225,808	251,233
37 Northwestern University	162,299	169,949	173,731	187,262	200,943	223,235	233,809	245,774
38 U of Iowa	148,811	157,036	164,893	178,228	184,414	199,063	207,135	236,944
39 Purdue University	149,032	172,733	203,419	206,951	206,588	216,479	226,411	234,536
40 U of Alabama Birmingham	133,790	141,735	158,779	170,193	203,758	227,720	232,115	233,461
Total, 1st 40 institutions	10,035,601	10,522,929	11,027,903	11,492,732	12,163,189	12,940,961	13,896,412	15,060,605
41 Indiana University	127,877	136,617	145,512	154,260	165,198	171,754	194,790	227,737
42 Michigan State University	150,861	163,285	182,009	182,589	190,178	193,611	207,912	227,734
43 Rutgers the State U NJ	161,025	173,211	192,263	185,103	183,038	197,053	213,838	225,268
44 U of MD Baltimore	111,772	110,866	107,874	122,207	134,808	143,321	140,903	224,346
45 California Inst of Tech ²	115,439	127,946	138,016	157,005	177,888	185,066	212,216	222,666
46 Emory University	120,125	136,186	148,178	149,168	163,619	172,884	189,170	206,070
47 University of Kentucky	102,911	105,539	111,934	118,721	124,804	161,346	174,034	202,392
48 University of Rochester ²	161,810	167,485	158,539	144,914	155,311	174,617	177,126	197,335
49 U of IL Chicago	106,952	113,741	119,381	121,540	139,296	151,739	175,093	195,839
50 Case Western Reserve U	124,691	133,272	141,089	143,435	161,825	176,330	182,332	193,057
Total, 1st 50 institutions	11,319,064	11,891,077	12,472,698	12,971,674	13,759,154	14,668,682	15,763,826	17,183,049

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
51 VA Polytech Inst & St U	135,771	148,313	148,501	143,815	169,808	167,118	169,250	192,672
52 U TX SW Med Ctr at Dallas	114,258	118,398	125,301	130,162	140,589	153,711	165,520	189,216
53 SUNY at Buffalo	128,203	141,092	143,768	137,701	135,663	151,650	166,823	187,692
54 University of Utah	105,263	103,771	105,642	114,423	135,911	142,956	153,843	187,661
55 New York University	129,774	139,202	148,935	145,874	153,288	156,452	167,179	182,205
56 U TX MD Anderson Cnrc Ctr ..	127,475	122,357	122,181	120,964	129,578	141,260	155,126	182,196
57 Iowa State University ²	148,459	155,982	154,932	151,914	155,433	156,766	161,301	175,558
58 University of Virginia	115,786	129,504	136,679	97,334	114,085	139,135	157,487	174,522
59 University of Cincinnati	92,512	93,599	91,159	127,733	141,604	159,695	153,002	172,085
60 Vanderbilt University	96,181	110,105	111,224	117,003	122,598	135,214	149,675	171,926
Total, 1st 60 institutions	12,512,746	13,153,400	13,761,020	14,258,597	15,157,711	16,172,639	17,363,032	18,998,782
61 University of Chicago ²	111,877	121,902	126,261	135,693	150,531	151,635	162,805	170,678
62 U of Tennessee System	143,662	153,340	151,316	149,331	154,230	150,694	158,930	163,690
63 SUNY at Stony Brook	107,817	113,251	122,611	126,377	136,624	141,766	148,982	163,307
64 Univ of Hawaii at Manoa	73,961	70,079	78,429	111,202	120,107	148,007	156,810	161,300
65 University of Connecticut	133,054	136,740	139,956	147,522	140,840	134,448	134,986	161,084
66 U of Missouri Columbia	106,193	121,256	122,870	119,079	128,178	136,061	149,002	158,861
67 U CA Irvine	100,631	104,778	109,908	119,647	119,669	130,415	141,842	158,437
68 Wayne State University	85,627	94,632	106,140	112,151	124,383	138,456	146,832	156,814
69 Boston University	91,158	90,504	103,709	110,266	120,392	130,054	141,102	154,029
70 Colorado State University	115,385	112,457	122,172	126,701	128,580	140,179	150,281	152,279
Total, 1st 70 institutions	13,582,111	14,272,339	14,944,392	15,516,566	16,481,245	17,574,354	18,854,604	20,599,261
71 University of Oklahoma	92,019	95,747	102,337	109,071	114,387	126,861	142,085	150,902
72 Mt Sinai Sch Med	75,337	86,179	92,008	92,405	94,776	109,448	127,765	149,846
73 University of Kansas	85,134	95,701	100,702	100,649	108,893	117,115	132,752	148,670
74 University of Miami	120,875	121,475	128,736	130,056	135,888	136,972	139,608	145,795
75 U of South Florida	75,322	86,186	92,758	94,157	99,649	104,325	123,961	145,397
76 U Med & Dent of NJ	76,410	86,866	96,365	98,535	110,383	114,491	126,277	140,951
77 Oregon State University	114,004	119,772	123,402	131,334	131,467	138,240	139,285	140,751
78 Yeshiva University	89,636	92,881	94,739e	91,430	96,819	99,000	111,771	139,618
79 Carnegie Mellon U ²	118,261	122,580	125,659	136,514	134,954	137,450	142,174	137,980
80 U of Nebraska at Lincoln	94,959	102,746	107,721	102,460	117,100	118,857e	131,046	136,023
Total, 1st 80 institutions	14,524,068	15,282,472	16,008,819	16,603,177	17,625,561	18,777,113	20,171,328	22,035,194
81 Princeton University ²	95,561	99,287	104,157	112,380	114,549	115,996	124,237	134,875
82 University of New Mexico	76,736	90,315	129,354	116,618	116,152	125,910	115,850	133,980
83 Georgetown University	73,785	82,661	102,421	112,582	119,114	116,611	111,426	133,211
84 Mississippi State U	70,300	76,201	72,145	84,124	84,157	100,410	110,896	132,503
85 Oregon Health Sciences U	56,860	63,875	74,726	80,333	98,319	109,374i	120,429i	131,486
86 Rockefeller U, The	74,396	74,458	99,348	105,595	109,999	115,494	121,519	124,138
87 UT Houston Hlth Sci Ctr	58,786	66,432	74,664	82,803	95,638	101,993	105,307	119,587
88 U CA Santa Barbara	68,775	73,619	78,737	91,284	91,149	96,034	104,561	118,154
89 Clemson University	78,569	76,572	82,883	84,836	84,034	90,150	99,341	114,903
90 Arizona State University	66,142	62,563	77,009	84,653	80,740	92,019	107,184	108,117
Total, 1st 90 institutions	15,243,978	16,048,455	16,904,263	17,558,385	18,619,412	19,841,104	21,292,078	23,286,148
91 Tufts University	68,519e	73,749	77,093	79,356	83,568	92,130	100,872	105,783
92 Florida State University	62,929	76,588	86,060	78,125	95,908	94,463	97,673	105,095
93 Washington State U	92,434	94,819	96,810	98,641	97,700	95,422	96,943	104,796
94 U of South Carolina	57,062	74,001	79,710	78,619	77,855	92,785	105,835	104,398
95 U TX Hlth Sci Ctr San Ant	75,239	83,535	87,336	83,028	86,019	82,357	87,804	103,824
96 Utah State University	75,835	79,085	82,468	81,709	91,292	94,228	95,364	103,161
97 U of Alaska Fairbanks	66,796	76,093	72,216	71,381	70,943	75,606	88,825	102,500
98 U TX Med Br at Galveston	67,998	72,773	72,569	73,759	77,683	86,488	93,580	97,896
99 U MA Worcester	60,602	61,790	62,441	63,341	71,346	82,950	83,040	97,587
100 U MA Amherst	64,111	65,344	66,082	73,678	85,811	89,970	86,576	97,052
Total, 1st 100 institutions	15,935,503	16,806,232	17,687,048	18,340,022	19,457,537	20,727,503	22,228,590	24,308,240

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
101 Auburn University	68,151	84,769	85,566	87,358	85,460	87,768	80,544	92,612
102 Kansas State University	62,562	65,696	71,103	71,222	76,896	81,233	85,580	91,790
103 Tulane University	75,634	83,885	100,231	83,660	86,427	87,858	87,324	89,785
104 Thomas Jefferson U	51,106	56,932	65,705	69,154	69,228	69,460	78,410	89,626
105 Oklahoma State University	72,920	70,808	75,906	82,960	62,480	71,466	83,108	88,285
106 Virginia Commonwealth U	77,097	76,597	76,529	79,018	78,948	80,538	79,785	88,220
107 Wake Forest University	57,646	52,581	68,388	75,331	75,290	76,893	82,827	86,840
108 U CA Riverside	59,065	60,995	62,539	71,495	75,486	79,775	75,821	83,580
109 SUNY at Albany	37,860	43,353	38,771	66,247	57,415	50,568	64,278	82,792
110 Woods Hole Oceanogr Inst	81,519	81,345	80,235	73,015	77,407	75,011	71,722	81,547
Total, 1st 110 institutions	16,579,063	17,483,193	18,412,021	19,099,482	20,202,574	21,488,073	23,017,989	25,183,317
111 Brown University	57,152	55,146	56,269	67,621	71,411	73,977	76,330	81,476
112 New Mexico State Univ	85,974	80,286	81,455	76,493	81,024	77,370	79,877	79,695
113 Dartmouth College	59,920	57,845	50,525	52,945	61,619	64,964	69,522	78,874
114 University of Delaware	52,627	50,734	53,161	54,154	65,095	69,896	73,521	74,711
115 U of New Hampshire	39,555	43,707	42,548	45,693	45,886	52,359	57,613	72,108
116 U of Arkansas Main	58,325	57,815	59,410	59,753	64,868	71,686	61,585	70,817
117 Medical Col of Wisconsin	48,689	49,604	44,169	47,365	51,629	56,021	61,446	70,581
118 George Washington U	41,177	38,429	43,488	49,263	55,158	74,481	66,757	69,300
119 Texas Tech University	38,119	39,455	40,824	43,000	46,645	53,126	58,488	68,224
120 Rush University	34,039	39,736	44,322	48,772	49,969	55,277	60,957	68,189
Total, 1st 120 institutions	17,094,640	17,995,950	18,928,192	19,644,541	20,795,878	22,137,230	23,684,085	25,917,292
121 West Virginia University	54,271	58,604	53,072	54,844	63,312	62,362	63,392	66,130
122 Montana St U Bozeman	32,911	36,149	47,998	50,097	49,440	52,292	55,475	65,324
123 Med U of South Carolina	42,543	46,249	57,495	54,426	57,111	57,940	55,819	65,243
124 University of Louisville	19,496	20,475	22,835	29,655	33,434	39,147	57,051	64,062
125 University of Vermont	49,839	51,775	54,065	53,659	59,526	57,832	64,049	63,391
126 University of Idaho	44,655	49,338	52,529	56,198	57,582i	58,967	62,531	61,347
127 U of Nevada Reno	38,564	42,176	46,783	47,977	52,703	45,476	47,939	56,248
128 U CA Santa Cruz	37,886	42,457	44,294	51,062	49,428	56,533	52,902	56,212
129 San Diego St University	32,493	29,309	35,287	43,201	40,586	41,915	45,579	55,002
130 U of Maine	24,879	29,393	31,901	34,684	33,144	33,106	41,452	54,821
Total, 1st 130 institutions	17,472,177	18,401,875	19,374,451	20,120,344	21,292,144	22,642,800	24,230,274	26,525,072
131 Temple University	53,686	56,308	54,742	56,533	54,500	63,024	53,940	52,466
132 U of Nebraska Med Ctr	31,669	33,997	38,287	42,612	45,365	50,453	54,205	51,547
133 North Dakota State U	34,971	36,977	40,677	43,661	35,197	40,007	44,696	50,063
134 U of Arkansas Medical Sci	15,686	22,762	28,389	33,354	37,336	39,487	44,066	49,074
135 University of Houston	55,038	43,131	44,993	49,178	45,916	42,297	43,370	48,902
136 U of Rhode Island	45,942	46,631	43,103i	39,575	40,522	37,940	44,452	48,135
137 NJ Inst of Technology	23,781	29,983	30,940	39,110	38,728	40,982	40,982	47,895
138 Brandeis University	36,213	34,835	36,451	36,760	40,145	44,589	48,305	47,658
139 U of Central Florida	33,922	33,599	37,147	21,488	38,592	35,530	42,466	47,646
140 Medical Col of Georgia	24,935	28,020	31,369	35,971	38,725	39,806	41,103	45,596
Total, 1st 140 institutions	17,828,020	18,768,118	19,760,549	20,518,586	21,707,170	23,076,915	24,687,859	27,014,054
141 U Mississippi, All Camp	23,734	25,000	26,862	26,215	26,231	28,079	17,298	44,927
142 University of Wyoming	32,556	38,464	40,470	40,553	47,753	48,500	47,197	43,094
143 Rice University	30,403	33,309	34,446	39,696	43,601	41,067	41,069	41,840
144 MCP Hahnemann University	42,752	45,218	41,237	48,790	85,748	95,984	27,516	41,670
145 U of Alabama Huntsville	34,153	31,482	36,736	38,176	32,817	36,946	40,203	41,274
146 Rensselaer Polytech Inst	44,132	37,191	37,247	37,917	38,803e	38,560	39,034	40,762
147 Syracuse University	32,443	38,650	33,939	34,322	34,642	37,322	39,640	39,468
148 University of Dayton	45,052	47,768	46,084	43,188	45,437	45,000	36,937	39,345
149 Naval Postgrad School	24,296	26,538	27,510	30,706	32,333	34,095	34,095e	37,502i
150 Georgia State University	12,133	17,100	17,867	18,114	27,069	31,153	36,523	36,600
Total, 1st 150 institutions	18,149,674	19,108,838	20,102,947	20,876,263	22,121,604	23,513,621	25,047,371	27,420,536

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
151 S Illinois U Carbondale	26,376	30,497	29,631	28,578	30,043	30,490	33,169	36,354
152 University of Oregon	30,738	31,170	30,386	33,654	31,487	33,315	32,695	35,934
153 Northeastern University	18,517	19,104	19,850	17,980	19,822	26,385	30,209	35,340
154 U PR Mayaguez Campus	23,156	22,967	40,393	44,502	48,857	51,181	55,648	34,683
155 Florida International U	11,443	13,520	16,375	16,856	17,359	17,880	25,061	34,649
156 University of Notre Dame	23,745	22,833	23,332	24,556	24,116	28,873	30,483	34,524
157 Col of William & Mary	21,793	20,443	20,597	25,183	24,051	25,966	31,322	33,299
158 U of LA Lafayette	11,319	11,099	13,416	13,429	22,381	24,768	30,735	32,692
159 CA St U Long Beach	5,342i	5,509i	5,676i	5,843	5,843	18,563i	31,283	32,551
160 University of Alabama, The	23,149	21,960	23,479	21,806	23,671	23,935	28,909	31,847
Total, 1st 160 institutions	18,345,252	19,307,940	20,326,082	21,108,650	22,369,234	23,794,977	25,376,885	27,762,409
161 SUNY Hlth Sci Ctr Brklyn	27,645	27,773	30,781	30,254i	29,727	27,517	28,840	31,626
162 U MD Ctr for Environ Sci	19,055	19,817	21,100	21,448	21,377	24,038	26,816	31,605
163 C R Drew U of Med & Sci	6,852	9,347	12,500	16,386	17,205e	17,205e	24,484	31,045
164 Saint Louis University	20,826	20,844	22,686	25,099	26,517	26,943	27,817	31,002
165 Loyola U of Chicago	29,232	36,830	33,098i	29,365	30,994	34,241	29,001	30,034
166 U MD Biotechnology Inst	--	14,839	18,062	22,933	29,117	31,861	31,172	29,946
167 Univ of Montana, The	15,169	16,908	18,881	21,421	21,151	20,133	24,372	29,590
168 Wright State University	19,791	19,388	18,661	17,381	17,291	19,676	23,131	29,092
169 Boston College	10,731	10,724	13,298	14,504	14,746	17,774	21,726	27,767
170 Univ of Memphis, The	11,740	13,305	14,642	18,429	21,271	22,486	24,280	27,381
Total, 1st 170 institutions	18,506,293	19,497,715	20,529,791	21,325,870	22,598,630	24,036,851	25,638,524	28,061,497
171 Howard University	18,427	19,836	24,819	28,894	27,873	23,673	23,557	27,254
172 Michigan Tech University	18,696	21,786	22,798	23,882	24,140	26,522	28,074	27,204
173 George Mason University	15,830	18,871	22,221	23,230	19,126	22,543	26,766	26,793
174 SUNY Col Env Sci Frstry	21,856	21,839	21,904i	21,969	20,540	22,036	25,385	26,663
175 U MD Baltimore County	7,544	8,117	11,868	14,304	19,799	18,155	21,854	26,044
176 U of Missouri Rolla	18,025	19,706	21,220	20,235	20,895	21,740	25,893	25,968
177 Desert Research Institute	21,187	21,459	22,851	20,100	20,000	21,500	23,376	25,877
178 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	--	25,736
179 Lehigh University	30,869	29,188	35,117	34,780	26,451	26,115	27,902	25,506
180 Old Dominion University	14,097	14,911	14,439	17,577	18,583	20,150	23,030	25,058
Total, 1st 180 institutions	18,672,824	19,673,428	20,727,028	21,530,841	22,796,037	24,239,285	25,864,361	28,323,600
181 Drexel University	20,314	20,886	19,389	19,322	19,267	19,603	22,397	24,876
182 Loma Linda University	9,030	9,204	9,270	10,837	13,396	12,788	18,818	24,369
183 U of Nevada Las Vegas	19,373	15,486	17,268	16,893	15,628	16,912	20,170	24,215
184 Unif Svcs U of Hlth Sci	30,846	27,334	39,612	36,851	18,812	20,309	22,898	23,987
185 Ohio University	15,452	16,425	19,713	18,329	21,008	21,469	21,437	23,767
186 NM Inst Mining & Tech	24,040	20,945	19,584	20,580	21,974	22,791	26,061	23,636
187 New York Medical College	18,491	18,725	18,424	16,372	16,890	19,159	20,436	23,348
188 Eastern VA Med School	15,818	17,873	17,823	17,730	19,109	21,672	24,096	23,299
189 Colorado School of Mines	13,644	13,880	16,585i	19,291	19,221	20,681	21,715	21,795
190 Florida A&M University	22,777	24,691	20,797	22,474	25,415	19,066	21,622	21,612
Total, 1st 190 institutions	18,862,609	19,858,877	20,925,493	21,729,520	22,986,757	24,433,735	26,084,011	28,558,504
191 U PR Med Sci Campus	14,622	17,765	17,354	15,005	15,575	19,830	17,114	21,373
192 San Jose State University	21,005	21,005i	21,005i	21,005i	21,005i	21,005e	21,005e	21,005e
193 U TX at El Paso	12,480	12,062	12,705	13,548	15,850	14,092	21,961	20,877
194 U WI-Milwaukee	18,245	19,180	19,684	19,679	19,995	20,807	21,325	20,010
195 U of Missouri Kansas City	10,976	11,420	11,727	12,597	11,734	12,875	14,331	19,647
196 Florida Atlantic U	11,331	11,236	13,776	10,576	10,521	14,265	17,151	19,535
197 University of Akron	17,558	16,783	15,589	15,507	17,999	16,326	16,279	19,495
198 U MA Lowell	14,292	15,155	15,505	18,515	18,695	19,372	19,413	19,334
199 OR Grad Inst Sci & Tech	18,288	20,859	22,141	21,412	20,045	21,047e	19,818	18,856
200 SUNY at Binghamton	13,760	15,803	17,106	18,500	19,310	20,754	17,998	18,661
Total, 1st 200 institutions	19,015,166	20,020,145	21,092,085	21,895,864	23,157,486	24,614,108	26,270,406	28,757,297

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
201 Mercer University	13,771	14,201	11,181	13,641	13,704	14,995	17,250	18,138
202 U Southern Mississippi	7,334	8,413	8,827	9,112	9,078	11,117	16,211	17,706
203 U of North Dakota	19,204	18,732	18,940	28,188	20,899	16,938	16,999	17,343
204 Brigham Young University	13,587	13,859	14,102	11,791e	11,502e	11,963	23,985	17,237
205 SUNY Upstate Med U	12,453	11,751	13,177	14,093	14,914	14,089	15,099	17,095
206 CUNY City College	20,401	18,831	22,695	22,166	22,526	21,147	15,888	17,059
207 Clark Atlanta University	12,057	12,709	25,245	34,566	28,893	29,637	19,467	16,891
208 Morehouse School of Med	7,448	7,522	7,896	13,206	13,218	13,614	13,622	16,889
209 South Dakota State U	14,050	14,083	13,448	14,925	15,671	15,631	15,599	16,784
210 Portland State University	5,860	7,146	7,920	9,376	9,285	10,507	13,940	16,494
Total, 1st 210 institutions	19,141,331	20,147,392	21,235,516	22,066,928	23,317,176	24,773,746	26,438,466	28,928,933
211 Wichita State University	6,407	7,483	9,691	9,904	11,797	13,117	14,555	16,213
212 Stevens Inst of Tech	14,004	13,460	13,766	15,249	12,179	12,944	13,794	15,879
213 Creighton University	9,109	9,645	11,036	11,641	13,127	15,011	16,015	15,841
214 U TX at Dallas	13,371	14,492	14,027i	13,562	14,561	15,211	16,028	15,684
215 Polytechnic University	9,424	11,869	10,897	10,964	8,452	6,373	9,050	15,500
216 CUNY Hunter College	10,381	12,264	12,421	15,021	14,037	13,497	15,934	15,047
217 Western Michigan U	8,630	9,145	9,033	9,606	10,035	11,532	13,727	14,230
218 Med Col of Ohio	12,285	12,471	13,008	13,367	13,469	11,425	12,467	13,747
219 Illinois Inst of Tech	8,252	8,853	11,923	16,000	16,182	14,013	13,438	13,734
220 University of Toledo	8,441	8,043	7,436	8,180e	8,729	11,512	11,819	13,694
Total, 1st 220 institutions	19,241,635	20,255,117	21,348,754	22,190,422	23,439,744	24,898,381	26,575,293	29,078,502
221 NC A&T State University	12,090	13,637	15,774	15,991	15,817	14,816	14,741	13,400
222 Northern Arizona U	9,051	10,290	10,856	11,572	10,800	11,652	11,857	12,570
223 Cal Poly St U	4,352	4,676i	5,000i	5,324i	5,648i	5,972	11,892	12,133
224 U MA Boston	9,745	10,962	9,146	10,898	11,194	11,491	11,132	12,058
225 Jackson State University	4,371	4,697	4,960i	5,224	5,135	6,111	8,823	12,027
226 CA St U Fresno	3,835	5,072i	6,309i	7,546i	8,785	10,345	11,450	11,598
227 Albany Medical College	11,845	10,324	14,981	7,888	6,965	8,236	10,377	11,522
228 Tennessee State U	5,252	6,916	7,431	9,137	8,629	9,329	10,762	11,285
229 Kent State University	12,075	11,312	10,802	11,497	11,439	12,690	11,083	10,817
230 U TX at Arlington	14,834	17,453	21,135	24,010	37,509	19,075	11,450	10,723
Total, 1st 230 institutions	19,329,085	20,350,456	21,455,148	22,299,509	23,561,665	25,008,098	26,688,860	29,196,635
231 Miami University (OH)	4,919	6,731	7,137	8,847	9,644	6,738	10,964	10,674
232 Inst of Paper Sci & Tech	8,344	8,995	9,640	12,532i	15,424e	15,424e	10,533e	10,533e
233 Worcester Polytech Inst	11,484	11,602	11,611	9,407	10,710	9,637	9,618	10,315
234 U TX at San Antonio	3,286	3,982	4,760i	5,538	15,890	7,220	7,780	10,292
235 Cleveland State U	9,803	10,570	10,496	10,690i	10,884e	11,211e	11,893e	10,214
236 U North TX Hlth Sci Ctr	5,718	5,475	5,381	6,499	7,258	8,921	9,689	10,131
237 University of Tulsa	7,889	7,945	8,107	9,565	9,776	8,235	10,040	10,054
238 U of Missouri St Louis	4,681	6,664	7,503	7,600	8,150	9,462	10,294	9,898
239 U of South Alabama	12,650	13,917	13,426	14,873	13,083	11,990	11,990e	9,865
240 Southern Methodist U	7,037	8,277	7,595	9,050	8,220	7,964	9,401	9,713
Total, 1st 240 institutions	19,404,896	20,434,614	21,540,804	22,394,110	23,670,704	25,104,900	26,791,062	29,298,324
241 Prairie View A&M U	5,931	8,306	8,019	10,621	9,768	9,952	10,157	9,464
242 Meharry Medical College	9,283	10,336	10,738	11,212	11,212e	11,212e	9,460	9,460e
243 Catholic U of America	7,926	7,542	7,670	7,427	8,845	9,418	13,317	9,329
244 Hampton University	4,597	5,342	6,344	3,854	8,002	7,140	7,472	9,323
245 U PR Rio Piedras Campus	5,502	5,434	5,554	6,116	6,671	9,959	9,885	9,308
246 University of North Texas	9,026	10,110	10,616	11,250	10,678	8,813	7,487	9,108
247 CA St U Los Angeles	3,523	3,025i	2,527i	2,029i	1,531i	1,033i	535	9,062
248 New Mexico Highlands U	291	1,485	2,035i	2,585	2,627i	2,669i	2,712	8,947
249 Idaho State University	4,119	6,052	6,092	8,732	5,495	10,016	5,642	8,899
250 Tuskegee University	5,500	7,121	7,446	9,061	33,046	37,354	9,223	8,893
Total, 1st 250 institutions	19,460,594	20,499,367	21,607,845	22,466,997	23,768,579	25,212,466	26,866,952	29,390,117

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
251 Tennessee Tech U	9,478	9,357	10,184	9,188	9,053	9,661	9,204	8,878
252 Teachers Col, Columbia U	79	468	736 <i>i</i>	1,005	1,381	6,775	7,206	8,561
253 Western Illinois U	14,448	13,780	14,009	13,517	14,152	15,882	10,049	8,489
254 East Carolina University	7,360	8,245	7,772	6,817	6,600	7,644	9,014	8,461
255 University of Denver	8,595	6,671	11,091	8,349	9,019	10,589	10,247	8,383
256 Southern U A&M All Camp	6,837	6,512	9,639	10,748	10,249	9,063	9,296	8,302
257 Alabama A&M University	9,316	11,098	9,417	9,615 <i>i</i>	9,813 <i>e</i>	14,143	11,562	8,238
258 U of LA Monroe, The	2,644	5,282	5,409	6,134	7,112	6,140	8,135	8,135 <i>e</i>
259 Alcorn State University	3,129	3,099	3,233 <i>i</i>	3,368	4,243 <i>i</i>	5,119	5,223	8,034
260 U of NC Wilmington	5,701	6,002 <i>i</i>	6,303 <i>i</i>	6,604 <i>i</i>	6,905 <i>i</i>	7,208	7,647	7,859
Total, 1st 260 institutions	19,528,181	20,569,881	21,685,638	22,542,342	23,847,106	25,304,690	26,954,535	29,473,457
261 U of NC Charlotte	5,036	5,362 <i>i</i>	5,688 <i>i</i>	6,014 <i>i</i>	6,340 <i>i</i>	6,669	9,041	7,790
262 Air Force Inst of Tech	3,252	7,057	5,960	5,877	7,619	4,240	4,316	7,771
263 Clarkson University	10,586	10,412	9,314	8,264	6,964	6,345	6,989	7,751
264 Marquette University	4,896	5,322	5,588	5,946	5,855	6,763	6,469	7,653
265 Finch U Hlth Sci Chicago	6,928	7,057	6,692	7,022	6,672	6,672 <i>e</i>	6,764	7,587
266 Northern Illinois U	11,215	11,445	12,600	11,674	7,466	6,725	6,455	7,431
267 Texas A&M Univ Kingsville	3,863	4,553 <i>i</i>	5,243 <i>i</i>	5,933 <i>i</i>	6,623 <i>i</i>	7,317	6,397	7,404
268 U of Houston Clear Lake	5,801	4,979 <i>i</i>	4,157 <i>i</i>	3,335 <i>i</i>	2,513 <i>i</i>	1,691	5,963	7,091
269 U MA Dartmouth	2,340	3,134	3,709	4,092	4,197	4,902	5,820	6,905
270 East Tennessee State U	1,927	2,283	2,205	2,255	2,252	3,152	3,351	6,494
Total, 1st 270 institutions	19,584,025	20,631,485	21,746,794	22,602,754	23,903,607	25,359,166	27,016,100	29,547,334
271 Alfred University	4,479	4,712	4,667	4,217	3,694	5,275	5,857	6,442
272 Oakland University	6,096	6,285	7,168	6,832	6,598	7,272	6,422	6,422 <i>e</i>
273 CUNY Brooklyn College	2,181	1,783	2,436	2,800	2,969	3,132 <i>e</i>	5,293	6,342
274 U of West Florida	1,239	1,850 <i>i</i>	2,461 <i>i</i>	3,072 <i>i</i>	3,683 <i>i</i>	4,294	4,588	6,248
275 Marshall University	604	540	206	234	180	25	66	6,231
276 CA St U Northridge	6,583	5,702 <i>i</i>	4,821 <i>i</i>	3,940 <i>i</i>	3,059 <i>i</i>	2,175	3,230	6,190
277 Florida Inst of Tech	5,866	4,384	7,973	8,013	5,077	5,848	5,830	6,058
278 Texas A&M U Corpus Chri	--	--	--	--	--	--	--	5,999
279 SD Sch of Mines & Tech	4,150	4,718	4,795	5,015	4,301	4,550	4,161	5,743
280 Harvey Mudd College	1,944	2,569 <i>i</i>	3,194 <i>i</i>	3,819 <i>i</i>	4,444 <i>i</i>	5,069 <i>i</i>	5,699 <i>e</i>	5,699 <i>e</i>
Total, 1st 280 institutions	19,617,167	20,664,028	21,784,515	22,640,696	23,937,612	25,396,806	27,057,246	29,608,708
281 U Ctrl Del Caribe Esc Med	1,977	2,139	2,897	2,626	2,456	3,558 <i>i</i>	4,660	5,677
282 Wesleyan University	4,804	5,112	5,093	5,245	5,927	5,146	5,373	5,673
283 Humboldt State University	3,223 <i>i</i>	3,461 <i>i</i>	3,699 <i>i</i>	3,937 <i>i</i>	4,175 <i>i</i>	4,417	5,557	5,557 <i>e</i>
284 Stephen F Austin St U	1,771	2,820	3,392	3,990	5,083	4,213	4,892	5,289
285 Villanova University	1,670	1,848	1,996	2,040	2,141	4,714	3,950	5,280
286 San Francisco State U	5,459	5,383 <i>i</i>	5,307 <i>i</i>	5,231 <i>i</i>	5,155 <i>i</i>	5,079 <i>i</i>	5,000 <i>e</i>	5,223 <i>e</i>
287 New School University	1,559	4,383	4,592 <i>i</i>	4,801 <i>i</i>	5,011	3,705	5,230	5,209
288 Rose-Hulman Inst of Tech	575	667 <i>i</i>	759 <i>i</i>	851 <i>i</i>	943 <i>i</i>	1,035 <i>i</i>	1,132	4,994
289 Wellesley College	1,731 <i>i</i>	1,747	1,782	4,944	4,943	4,943 <i>e</i>	4,943 <i>i</i>	4,943 <i>i</i>
290 U of Nebraska at Omaha	1,397	1,493 <i>i</i>	1,589 <i>i</i>	1,685 <i>i</i>	1,781 <i>i</i>	1,879	4,097	4,923
Total, 1st 290 institutions	19,641,333	20,693,081	21,815,621	22,676,046	23,975,227	25,435,495	27,102,080	29,661,476
291 U of Alaska Anchorage	0 <i>e</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>e</i>	4,782	4,782 <i>e</i>
292 Rochester Inst of Tech	6,331	11,528	6,370	8,118	8,398	8,133 <i>e</i>	9,340 <i>e</i>	4,755
293 U of South Dakota	3,996	2,879	3,149	5,500	4,586	4,959	5,762	4,742
294 U.S. Air Force Academy	1,956	2,397 <i>i</i>	2,838 <i>i</i>	3,279 <i>i</i>	3,720 <i>i</i>	4,163	3,761	4,551
295 Southwest Texas St Univ	3,487	3,450 <i>i</i>	3,413 <i>i</i>	3,376 <i>i</i>	3,339 <i>i</i>	3,299	3,597	4,507
296 Illinois State University	4,535	5,071	5,166	4,608	4,596	4,688 <i>e</i>	4,326	4,434
297 Virginia State University	4,801	4,569	3,134	3,270	3,988	3,338	2,611	4,422
298 Morgan State University	1,496	3,558	3,663 <i>i</i>	3,768 <i>i</i>	3,873 <i>i</i>	3,981	1,066	4,371
299 Indiana State University	835	1,042	1,208	1,548	1,265	5,255	4,977	4,196
300 MT Tech of the U of MT	2,340	2,718 <i>i</i>	3,096 <i>i</i>	3,474 <i>i</i>	3,852 <i>i</i>	4,230 <i>i</i>	4,613	4,155
Total, 1st 300 institutions	19,671,110	20,730,293	21,847,658	22,712,987	24,012,844	25,477,541	27,146,915	29,706,391

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
301 U Arkansas Pine Bluff	3,247	3,446	4,780	3,424	3,974	4,151	4,151e	4,151i
302 University of Guam	2,753i	2,765i	2,777i	2,789i	2,801i	2,819	2,829	4,130
303 Eastern Michigan U	1,129	1,192i	1,255i	1,318i	1,381i	1,444i	1,512	4,118
304 N.E. Ohio Univ Col of Med	1,892	2,446	3,193	2,493	2,990	2,918	3,389	4,011
305 U MD Eastern Shore	3,045	1,128	1,880	1,980	2,187	2,265	2,508	3,895
306 Tarleton State University	2,839	2,760	2,535	2,987	2,695	3,954	3,905	3,872
307 CUNY Queens College	2,649	2,705	3,397	2,980	2,686	3,353	3,083	3,827
308 Western Kentucky Univ	893	1,982i	3,071i	4,160i	5,249i	6,342	3,287	3,770
309 CA St U Bakersfield	634	562i	490i	418i	346i	274i	200e	3,703
310 Fordham University	1,737	2,241	2,067	2,712	3,663	2,247	3,134	3,584
Total, 1st 310 institutions	19,691,928	20,751,520	21,873,103	22,738,248	24,040,816	25,507,308	27,174,913	29,745,452
311 Boise State University	1,630	2,453	3,285	3,102	3,211	3,412	3,501	3,480
312 Bowling Green State U	3,430	3,874	3,700	3,942	3,542	3,392	3,454	3,454e
313 Winston Salem State U	529	940	1,123	1,406	2,034	2,468	1,712	3,450
314 W Washington Univ	2,553i	2,785i	3,017i	3,249i	3,481i	3,716	3,894	3,433
315 Xavier University of LA	3,169	4,176	10,048	5,188	5,527	5,388	3,294	3,425
316 Delaware State University	1,262	3,987	1,036	2,071	1,947	2,883	2,765	3,415
317 Norfolk State University	566	671	1,273	2,239	1,401	2,524	2,995	3,408
318 Ponce School of Medicine	2,591	3,102	3,418	4,450	2,802	2,953i	3,105	3,403
319 Fisk University	1,502	1,631	1,800i	1,969	1,969e	2,909	4,034	3,401
320 U of AR at Little Rock	--	--	--	--	--	--	--	3,400e
Total, 1st 320 institutions	19,709,160	20,775,139	21,901,803	22,765,864	24,066,730	25,536,953	27,203,667	29,779,721
321 U of the Virgin Islands	6,189	2,794	3,811i	4,828	4,828e	4,828e	3,310	3,310e
322 Baylor University	1,275	1,179	1,471	1,251	2,233	2,032	2,032e	3,307
323 Lamar University	3,269	3,052	2,189	2,407	1,988	3,051	3,739	3,204
324 Sam Houston State U	1,380	2,321	3,905i	5,490	5,849	4,532	3,892	3,053
325 Texas Christian U	3,170	3,110	2,783	2,787	3,175	3,125	4,061	3,050
326 College of Charleston	1,309	1,445i	1,581i	1,717i	1,853i	1,989	2,100	3,047
327 Texas Woman's University	1,380	1,458	1,712	1,818	2,224	2,359	2,179	3,005
328 Nova Southeastern U	1,120	1,245	1,265	1,258	1,402	1,986	3,106	2,919
329 South Carolina State U	4,103	5,181	4,091i	3,000	2,855	2,885	2,900	2,915
330 Clark University	2,311	2,711	2,228	1,954	2,417	2,147	2,651	2,908
Total, 1st 330 institutions	19,734,666	20,799,635	21,926,839	22,792,374	24,095,554	25,565,887	27,233,637	29,810,439
331 Morehouse College	1,119	992	1,074	592	592e	592e	2,853	2,853e
332 Bryn Mawr College	2,310	2,559	2,403	3,432	7,016	4,231	3,929	2,791
333 US Naval Academy	5,720	5,107i	4,494i	3,881i	3,268i	2,651	2,316	2,786
334 Fort Valley State U	2,749	2,648	3,009	2,474	2,863	2,989	2,937	2,768
335 University of DC	3,055i	3,211	3,227i	3,244	3,244e	3,074	3,394	2,737
336 Baylor Col of Dentistry	754	1,244	1,131	1,363	1,983	2,359	2,848	2,718
337 Embry-Riddle Aero Univ	2,124	2,228i	2,332i	2,436i	2,540i	2,647	2,647e	2,700e
338 Bowie State University	465	937	173	49	2,672	4,511	2,675	2,675e
339 Duquesne University	589	1,115	1,440	861	1,396	1,297	2,025	2,662
340 Hampshire College	1,447	1,978	2,380i	2,782i	3,185	2,972	2,900	2,658
Total, 1st 340 institutions	19,754,998	20,821,654	21,948,502	22,813,488	24,124,313	25,593,210	27,262,161	29,837,787
341 Institute of Textile Tech	2,412	2,297	2,642	2,781	2,813	2,776	2,346	2,638
342 Smith College	1,788i	1,920	1,728i	1,536i	1,344	1,295	1,107	2,582
343 Ithaca College	284	527i	770i	1,013i	1,256i	1,499	2,066	2,565
344 Langston University	1,881	2,046	3,187	2,521	1,828	2,031	2,340	2,553
345 Santa Clara University	1,815	1,815e	1,895i	1,954i	2,077i	2,189i	2,326i	2,509i
346 Lincoln University	2,958	3,121	2,934	2,970	2,899	3,313	2,686	2,502
347 Midwestern University	1,482	1,928	2,126	1,512	2,250	1,840	1,701	2,470
348 Ball State University	1,322	2,002	2,248	2,667	3,076	2,361	2,056	2,429
349 Claremont Graduate Sch	1,011	1,229	1,017	1,100	902	401	1,870	2,416
350 CA St U Chico	2,158	2,158	3,413	1,629	3,558	3,376	3,106	2,390
Total, 1st 350 institutions	19,772,109	20,840,697	21,970,462	22,833,171	24,146,316	25,614,291	27,283,765	29,862,841

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
351 U of NC Greensboro	2,360	2,309	2,437	2,028	1,882	2,619	2,368	2,368e
352 Grambling State U	210	209	204	1,455	2,634	1,997	1,997e	2,264
353 American University	3,903	3,226	3,063	3,279	3,029	3,453	2,987	2,245
354 Texas Southern U	4,220	2,612	4,173	3,820	3,867	2,690	2,507	2,182
355 Towson University	316	146	180	189	247	959	1,452	2,138
356 E Washington Univ	2,445	2,445i	2,445i	2,445i	2,445i	2,445e	2,356	2,108
357 Murray State University	1,026	976	1,235	1,059	1,490	2,043	1,966	2,084
358 Spelman College	603	1,089	1,435	1,084	2,553	1,744	2,007	2,082
359 Milwaukee School of Eng	786	969i	1,152i	1,335i	1,518i	1,704	1,776	2,020
360 Central Washington U	748	911i	1,074i	1,237i	1,400i	1,563i	1,731	2,006
Total, 1st 360 institutions	19,788,726	20,855,589	21,987,860	22,851,102	24,167,381	25,635,508	27,304,912	29,884,338
361 St. Cloud State Univ	353	669i	985i	1,301i	1,617i	1,935	1,935e	1,935e
362 Amherst College	1,724	1,694i	1,664i	1,634i	1,604i	1,573	1,498	1,859
363 Williams College	1,853	1,853i	1,853i	1,853i	1,853i	1,853e	1,853e	1,853e
364 Bucknell University	661	773i	885i	997i	1,109i	1,221i	1,335	1,835
365 Mount Holyoke College	804i	848i	892i	936i	980i	1,033	1,721	1,835
366 CA St U San Bernardino	156	202i	248i	294i	340i	390	3,301	1,797
367 Pomona College	1,392	1,316i	1,240i	1,164i	1,088i	1,010	1,619	1,791
368 U of Detroit Mercy	2,069	2,527	2,950	2,555	2,260	1,853	1,870	1,767
369 U of Central Arkansas	--	--	--	--	--	--	--	1,758
370 Gallaudet University	3,535	3,271i	3,007i	2,743i	2,479i	2,212	2,348	1,752
Total, 1st 370 institutions	19,801,273	20,868,742	22,001,584	22,864,579	24,180,711	25,648,588	27,322,392	29,902,520
371 West Texas A&M U	451	871i	1,291i	1,711i	2,131i	2,551	2,267	1,751
372 U of Northern Iowa	1,079	1,404	2,165	1,944	1,623	1,682	1,542	1,744
373 Loyola College	1,158	1,569	1,386	1,023	905	1,303	1,445	1,724
374 Vassar College	596	596i	596i	596i	596i	596e	1,156i	1,716
375 CA St U Fullerton	1,749i	1,749i	1,749i	1,749i	1,749i	1,749e	1,749i	1,712i
376 CA St Poly U Pomona	2,621	2,363i	2,105i	1,847i	1,589i	1,331i	1,069	1,703
377 Le Moyne-Owen Coll	--	--	--	--	--	1,451	1,053	1,700
378 U of TX Pan American	1,095	1,208i	1,321i	1,434i	1,547i	1,664	1,684	1,688
379 SUNY Col at Buffalo	1,496	1,460	1,604	2,570	2,448	1,157	1,689	1,683
380 Colgate University	--	--	--	--	--	--	--	1,664
Total, 1st 380 institutions	19,811,518	20,879,962	22,013,801	22,877,453	24,193,299	25,662,072	27,336,046	29,919,605
381 Pittsburg State U	303	281	281	546	361	1,631	1,614	1,663
382 State U of West Georgia	200	407i	614i	821i	1,028i	1,235i	1,442i	1,655
383 CUNY H H Lehman Col	0e	1,454	1,327i	1,199	1,247e	1,308i	1,370	1,632
384 Maharishi U of Mgmt	0e	776	699	0	0	0	0	1,632
385 Elizabeth City State U	1,050	418	758i	1,098	1,379	684	1,040	1,558
386 Grinnell College	332	332i	332i	332i	332i	332e	4,300	1,500
387 U WI-La Crosse	708	712	1,133	1,310	1,045	1,185	1,113	1,404
388 Albany State University	3,733	3,687e	3,687i	3,687e	3,687e	1,019	1,019e	1,393
389 Bradley University	483	685i	887i	1,089i	1,291i	1,493	1,341	1,371
390 Middlebury College	788	781i	774i	767i	760i	753i	742	1,371
Total, 1st 390 institutions	19,819,115	20,889,495	22,024,293	22,888,302	24,204,429	25,671,712	27,350,027	29,934,784
391 U of Southern Maine	392e	436i	480i	524i	568i	614	1,366	1,366e
392 Alabama State University	534	1,055	1,000	1,000	818	1,177	1,365	1,365e
393 Albany Col of Pharmacy	--	--	--	--	--	--	--	1,360
394 Barnard College	1,440	1,306	1,246	934	943e	1,172	1,181	1,347
395 S Illinois U Edwardsville	1,937	1,743i	1,549i	1,355i	1,161i	966	1,316	1,344
396 CUNY York College	930	840	900	952	1,311	1,526	1,392	1,341
397 Southwest Missouri St U	2,415	2,292i	2,169i	2,046i	1,923i	1,797	1,324	1,324e
398 SUNY Col Old Westbury	440	505	610	640	991	777	691	1,310
399 CUNY John Jay Col Cr Just	859	181	248	686	688	1,325	1,442	1,274
400 Long Island University	278	267	238	155	902	1,221	1,406	1,267
Total, 1st 400 institutions	19,828,340	20,898,120	22,032,733	22,896,594	24,213,734	25,682,287	27,361,510	29,948,082

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
401 Chicago State University	1,048	1,248	740	757	759	713	1,266	1,263
402 Carleton College	940	938i	936i	934i	932i	930i	927	1,245
403 Trinity University	1,486	1,383i	1,280i	1,177i	1,074i	971i	867	1,241
404 U WI-Stout	1,433	1,500	1,305	1,523	1,306	1,386	976	1,236
405 New England Col Opt	333	289	144	723	1,111	1,734	1,643	1,228
406 U WI-Stevens Point	1,179	1,649	1,871	1,649	1,324	1,112	1,302	1,227
407 Union Institute, The	0	1,008	1,155	1,173	1,024i	875	1,023	1,217
408 Colorado College	323	301i	279i	257i	235i	211	877	1,213
409 CUNY Col Staten Island	1,209	7,045	954	901	794	1,014	979	1,208
410 Arkansas State University	806	837i	868i	899i	930i	962	1,527	1,203
Total, 1st 410 institutions	19,837,097	20,914,318	22,042,265	22,906,587	24,223,223	25,692,195	27,372,897	29,960,363
411 Calvin College	493	583i	673i	763i	853i	943i	1,033	1,191
412 Haverford College	914i	920	631	1,077	1,304	1,303	1,104	1,191
413 Franklin & Marshall Coll	906	956i	1,006i	1,056i	1,106i	1,158	1,424	1,188
414 Coastal Carolina U	--	--	--	--	--	--	--	1,187
415 St John's University (NY)	860	1,103	1,068	1,903	2,216	1,572	1,617	1,184
416 University of Richmond	652	1,080	454	807	937	1,035	1,099	1,178
417 Benedict College	600	1,062	850	634	634e	800i	966i	1,143
418 Grand Valley State U	830	736	727	1,810	1,247	892	992	1,138
419 U of Northern Colorado	240	252	285	561	799	736e	701	1,128
420 James Madison University	910	1,041i	1,172i	1,303i	1,434i	1,568	1,781	1,121
Total, 1st 420 institutions	19,843,502	20,922,051	22,049,131	22,916,501	24,233,753	25,702,202	27,383,614	29,972,012
421 John Carroll University	543	631i	719i	807i	895i	983i	1,072	1,072e
422 Fairfield University	305	413i	521i	629i	737i	845i	953i	1,061
423 University of Hartford	0e	157	357	466	365	397	773	1,061
424 Southeastern Louisiana U	390	487i	584i	681i	778i	875i	976	1,057
425 CA Sch Prof Psy-Fresno	616	1,279	1,424i	1,570	1,399	1,777	742	1,034
426 Hamilton College	475	475i	475i	475i	475i	475e	751i	1,027
427 CA Sch Prof Psy S Diego	66	25	510	517	461	1,020	1,020e	1,020e
428 University of the Pacific	1,124	60	970	860	2,601	886	999	1,020
429 Trinity College	605	762i	919i	1,076i	1,233i	1,390i	1,552	1,010
430 Union College (NY)	1,032	1,054	988	1,016	687	694	1,043	1,002
Total, 1st 430 institutions	19,848,658	20,927,394	22,056,598	22,924,598	24,243,384	25,711,544	27,393,495	29,982,376
431 SUNY Col of Optometry	377	680	537	641	499	668	1,135	1,001
432 CA St U Dominguez Hills	581	1,903i	3,225i	4,547i	5,869i	7,191i	8,517	998
433 SUNY Col at Plattsburgh	846	1,108	1,520	1,207	951	1,133	793	996
434 Seton Hall University	2,895i	3,072	2,411e	2,400e	2,400e	2,400	1,116	996
435 Swarthmore College	1,128	1,401	875	871	869	996	996e	996e
436 St. Joseph's Univ	140	231i	322i	413i	504i	595	311	975
437 Georgia Southern U	1,183	1,125i	1,067i	1,009i	951i	893i	833	944
438 Phila Col Osteopathic Med	1,095	469	882	869	688	516	1,050	930
439 Louisiana Tech University	3,582	2,315	2,707i	3,100	5,379i	7,659	7,659e	928
440 Hope College	862	891i	920i	949i	978i	1,007i	1,039	922
Total, 1st 440 institutions	19,861,347	20,940,589	22,071,064	22,940,604	24,262,472	25,734,602	27,416,944	29,992,062
441 Simmons College	368	462i	556i	650i	744i	838i	937	912
442 U of IL Springfield	--	--	--	--	--	--	--	910
443 Savannah State Univ	173	128	214	317	316	331	513	905
444 Tougaloo College	1,415	1,502	1,606i	1,710i	1,815	1,180	1,227	895
445 Rider University	--	--	--	--	--	--	--	891
446 DePaul University	1,510	1,329	1,182	1,300	1,103	1,233	1,028	863
447 U of NC Asheville	531	566i	601i	636i	671i	706i	742	861
448 U of Houston Downtown	900	932i	964i	996i	1,028i	1,060i	1,096	837
449 Mississippi Valley St U	213	319	471	586	563	350	495	834
450 Occidental College	2,220	2,220i	2,220i	2,220i	2,220i	2,220e	862	826
Total, 1st 450 institutions	19,868,677	20,948,047	22,078,878	22,949,019	24,270,932	25,742,520	27,423,844	30,000,796

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
451 Lawrence Tech Univ	187	171 <i>i</i>	155 <i>i</i>	139 <i>i</i>	123 <i>i</i>	104	344	821
452 Kirksville Col Osteo Med	829	836	910	747	644	509	743	816
453 Bennett College	123	112	112	93	93 <i>e</i>	811	811 <i>e</i>	811 <i>i</i>
454 North Carolina Central U	335	409	835	852 <i>i</i>	869 <i>e</i>	869	825 <i>e</i>	808 <i>i</i>
455 Sul Ross State University	179	143	176	316	320	602	630	796
456 West Chester U of PA	710	1,113	1,919	462	506	672	769	794
457 Furman University	253	283	577	728	665	522	365	793
458 Hofstra University	1,073	1,786	2,218	726	717	717	716	787
459 Evergreen State Coll	290	358 <i>i</i>	426 <i>i</i>	494 <i>i</i>	562 <i>i</i>	630 <i>i</i>	698 <i>i</i>	766
460 Salem-Teikyo University	--	--	--	--	--	752	704	762
Total, 1st 460 institutions	19,872,656	20,953,258	22,086,206	22,953,576	24,275,431	25,748,708	27,430,449	30,008,750
461 Central Michigan U	1,733	1,334	558 <i>e</i>	1,043	843 <i>e</i>	0	755	755 <i>e</i>
462 SUNY Col at Oswego	1,001	1,192	1,056 <i>i</i>	920	803	716	542	744
463 CUNY Grad Ctr	3,125	2,674	3,449 <i>i</i>	4,224 <i>i</i>	4,999	5,109	1,098	739
464 Dickinson College	--	--	--	--	--	1,789	948	739
465 Truman State University	743	743 <i>e</i>	684 <i>i</i>	624	764	754	754 <i>e</i>	738 <i>i</i>
466 Middle Tennessee State U	163	327	415	535	465	297	618	733
467 Indiana U of PA All Cmp	333	374	349	562	512	512 <i>e</i>	389	731
468 Valparaiso University	490 <i>i</i>	556	556 <i>e</i>	426 <i>e</i>	443	571	569	725
469 U of Southern Colorado	1,228	1,251	1,464	1,183	884	824	979	724
470 SUNY Col at Brockport	373	458	460 <i>e</i>	532	591	609	676	722
Total, 1st 470 institutions	19,881,845	20,962,167	22,095,197	22,963,625	24,285,735	25,759,889	27,437,777	30,016,100
471 Reed College	641	601 <i>i</i>	561 <i>i</i>	521 <i>i</i>	481 <i>i</i>	441 <i>i</i>	400 <i>e</i>	716
472 Kentucky State University	2,349	2,665	2,920	2,773	2,139	713	713 <i>e</i>	713 <i>i</i>
473 Lincoln University (PA)	505	502	818 <i>i</i>	1,135	1,032	1,364	972	709
474 University San Francisco	825	771 <i>i</i>	717 <i>i</i>	663 <i>i</i>	609 <i>i</i>	555 <i>i</i>	500 <i>e</i>	700
475 Appalachian State U	358	494	549	511	511	558	621	694
476 Oberlin College	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	0 <i>i</i>	691
477 SUNY Col at Geneseo	344	518	316	651	461	475	543	686
478 U WI-Eau Claire	387	666	377	386	479	613	604	684
479 U of Health Sci (MO)	75	718	963	677	652	885	885 <i>e</i>	677
480 Virginia Union University	--	--	--	--	--	671	671 <i>e</i>	671 <i>i</i>
Total, 1st 480 institutions	19,887,329	20,969,102	22,102,418	22,970,942	24,292,099	25,766,164	27,443,686	30,023,041
481 Lafayette College	500	525 <i>i</i>	550 <i>i</i>	575 <i>i</i>	600 <i>i</i>	625	600	665
482 East Stroudsburg U of PA	181	298 <i>i</i>	415 <i>i</i>	532 <i>i</i>	649 <i>i</i>	766 <i>i</i>	887 <i>e</i>	642
483 Eastern Kentucky U	457	6,498 <i>i</i>	12,539 <i>i</i>	18,580 <i>i</i>	24,621 <i>i</i>	30,662 <i>i</i>	36,708	640
484 McNeese State University	792	0	131	131 <i>e</i>	25	410	699	639
485 Kettering University	345	362 <i>i</i>	379 <i>i</i>	396 <i>i</i>	413 <i>i</i>	433	647	625
486 Radford University	--	--	--	--	--	273	181	624
487 Minnesota State, Mankato	910	1,115 <i>i</i>	1,320 <i>i</i>	1,525 <i>i</i>	1,730 <i>i</i>	1,939	564	607
488 Bates College	152	159	340	588	402	682	754	598
489 Southern Connecticut St U	299	281 <i>i</i>	263 <i>i</i>	245 <i>i</i>	227 <i>i</i>	209 <i>i</i>	188	596
490 College of Wooster	182	220	279	293 <i>e</i>	219	323	379	593
Total, 1st 490 institutions	19,891,147	20,978,560	22,118,634	22,993,807	24,320,985	25,802,486	27,485,293	30,029,270
491 Bethune Cookman College	221	507	0	451	606	566	583	586
492 Bridgewater State College	655	590 <i>i</i>	525 <i>i</i>	460 <i>i</i>	395 <i>i</i>	330 <i>i</i>	260	585
493 U WI-Oshkosh	329	380	330	396	574	636	603	585
494 PA College of Optometry	819	734 <i>i</i>	649 <i>i</i>	564 <i>i</i>	479 <i>i</i>	394 <i>i</i>	307	581
495 Western Carolina U	183	263	228	228	332	442	501	580
496 Bowdoin College	306	481	459	909	425	474	510	576
497 Oakwood College	186	161	300	371	718	845	567	567 <i>e</i>
498 Central State University	1,889	1,791	1,789 <i>i</i>	1,786	1,786 <i>e</i>	1,497	1,497 <i>e</i>	560 <i>e</i>
499 Claflin College	180	103	540	764	1,254	1,403	555	555 <i>e</i>
500 University of Portland	117	257	333	447	306	282	387	552
Total, 1st 500 institutions	19,896,032	20,983,827	22,123,787	23,000,183	24,327,860	25,809,355	27,491,063	30,034,997

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
501 University of San Diego	736	641	701	252	248	484	343	545
502 St Olaf College	284	321i	358i	395i	432i	469i	506	544
503 U WI-Green Bay	449	350	390	590	533	491	478	543
504 U of Sci in Philadelphia	755	634	881	695	650	358	358e	532
505 Youngstown State Univ	172	317i	462i	607i	752i	898	468	532
506 Lewis and Clark College	269	308i	347i	386i	425i	468	600	529
507 Manhattan College	1,189	1,064i	939i	814i	689i	563	485	509
508 U of Central Oklahoma	132	148i	164i	180i	196i	215	1,173	509
509 Fayetteville State U	273	437	470i	503	139	485	265	507
510 Nicholls State U	--	--	--	--	--	--	--	504
Total, 1st 510 institutions	19,900,291	20,988,047	22,128,499	23,004,605	24,331,924	25,813,786	27,495,739	30,040,251
511 CA Sch Prof Psy-Alameda	0	0	72	133	118	193	498	498e
512 Whitman College	633	596i	559i	522i	485i	444	492	483
513 Virginia Military Inst	426	394	508	508	429	334	394	470
514 Drake University	379	374i	369i	364i	359i	354i	349	468
515 Spalding University	2	12	15	0	0	189	0	462
516 Wentworth Inst of Tech	1,634	1,504	1,155	1,234	773	1,146	817	452
517 St Mary's Col of MD	--	--	--	--	--	--	--	447
518 Andrews University	377	247	279	366	381	290	290e	444
519 Connecticut College	432	432i	432i	432i	432i	432e	432i	423i
520 Arkansas Tech Univ	527	506i	485i	464i	443i	419	598	419
Total, 1st 520 institutions	19,904,701	20,992,112	22,132,373	23,008,628	24,335,344	25,817,587	27,499,609	30,044,817
521 Des Moines U Ost Med Ctr	396	362	80	316	302	416	673	417
522 US Coast Guard Academy	310	308i	306i	304i	302i	300	570	405
523 Lake Forest College	0	20i	40i	60i	80i	103	190	399
524 Montclair State U	65	112i	159i	206i	253i	300i	347i	396
525 Colby College	296	314i	332i	350i	368i	389	355	392
526 New York Inst Technology	402	346	183	278	325	295	370	390
527 Pitzer College	290	665	544i	423	240	260	297	383
528 U WI-Superior	1,988	1,705	1,611	951	494	383	505	380
529 CUNY Baruch Col	491	383	243	154	113	319i	526	375
530 Chapman U	121	157i	193i	229i	265i	301i	337i	373
Total, 1st 530 institutions	19,909,060	20,996,484	22,136,064	23,011,899	24,338,086	25,820,653	27,503,779	30,048,727
531 College of the Holy Cross	928	431	564	1,419	437	430	252	371
532 SUNY Col at Cortland	173	295	244	373	357	55	82	362
533 U WI-Parkside	487	373	319	338	339	187	158	362
534 Monmouth University	404e	722	776	630	708	382	357	357e
535 U of Findlay	--	--	--	--	--	--	--	350
536 Augsburg College	678	616i	554i	492i	430i	368i	303	337
537 Denison University	418	401i	384i	367i	350i	333i	314	328
538 Texas A&M U Commerce	206	213	282	263	290	361	168	327
539 Allegheny College	522	557i	592i	627i	662i	697i	734	318
540 Western U of Hlth Sci	39	168	152	206	58	295	295e	318i
Total, 1st 540 institutions	19,912,915	21,000,260	22,139,931	23,016,614	24,341,717	25,823,761	27,506,442	30,052,157
541 Skidmore College	249	230i	211i	192i	173i	151	236	314
542 Southern Oregon Univ	173	208i	243i	278i	315	341	320	301
543 CUNY Medger Evers Col	--	--	--	--	--	--	--	291
544 Pace University All Cmp	0e	0e	0	0	0	596	571	289
545 Johnson C Smith U	377	2,083	1,307	1,307	1,546	4,299	8,659	287
546 St. Mary's University	582	466i	350i	234i	118i	0	0	287
547 Cooper Union	1,515	1,515i	1,515i	1,515i	1,515i	1,515e	144	284
548 Wilberforce University	200	505	384	323	280	280e	280i	280i
549 U WI-Whitewater	204	201	287	356	395	282	148	272
550 Willamette University	--	--	--	--	--	340	58	266
Total, 1st 550 institutions	19,916,215	21,005,468	22,144,228	23,020,819	24,346,059	25,831,565	27,516,858	30,055,028

See explanatory information and SOURCE at end of table.

**Table B-32. Total R&D expenditures at universities and colleges,
ranked by fiscal year 2000 total R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
551 Dillard University	0	110	145	314	175	175e	175	264
552 Pacific University	0	0	0	0	0	0	0	264
553 Ohio Wesleyan University	275	450	319	508	619	197	255	255e
554 Knox College	639	584i	529i	474i	419i	364i	309i	254
555 Abilene Christian Univ	468	441i	414i	387i	360i	330	272	252
556 Kennesaw State Univ	121	164	89	132	158	132	142	249
557 Southeast Missouri St U	788	699i	610i	521i	432i	343i	250e	233
558 Macalester College	148	160i	170i	180i	190i	200i	210i	220i
559 U of Missouri Sys Admn	915	740	205	196	209	270	291	219
560 Central Connecticut St U	208	209i	210i	211i	212i	213i	214i	218
Total, 1st 560 institutions	19,919,777	21,009,025	22,146,919	23,023,742	24,348,833	25,833,789	27,518,976	30,057,456
561 Regis University	93	99i	105i	111i	117i	124	93	208
562 Widener U All Campuses	0	0	0	0	0	0	70	208
563 W State Coll Colorado	134	130i	126i	122i	118i	110	158	204
564 University of New Haven	244	504	505i	507	558e	558e	198	198e
565 SUNY Col at Fredonia	271	319	382	204	154	118	92	194
566 Fort Lewis College	660	462	438	235	447	599	243	191
567 Northeastern Illinois U	197	294	1,513	282	530	186	101	184
568 Southern U New Orleans	--	--	--	--	--	--	--	183
569 Adelphi University	243	243e	319	317	433	252	254	169
570 Juniata College	221	212i	203i	194i	185i	176i	164	168
Total, 1st 570 institutions	19,921,840	21,011,288	22,150,510	23,025,714	24,351,375	25,835,912	27,520,349	30,059,363
571 Point Loma Nazarene Col	162	162i	162i	162i	162i	162i	162i	165
572 Fairleigh Dickinson U	140	140e	140e	140	775	394	356	158
573 U WI-River Falls	404	175	115	146	262	242	231	152
574 Sonoma State University	--	--	--	--	--	194	134	150
575 U of Nebraska at Kearney	60	72i	84i	96i	108i	120i	132i	146
576 Gustavus Adolphus Col	426	392i	358i	324i	290i	256i	222	143
577 SUNY Purchase College	206	255	226i	196	241	165	188	139
578 Rust College	346	389	332	0	0	317	114	138
579 U of Alaska, SE	--	--	--	--	--	248	80	135
580 WV Sch of Osteo Med	146	142	121	128	146	146	99	132
Total, 1st 580 institutions	19,923,730	21,013,015	22,152,048	23,026,906	24,353,359	25,838,156	27,522,067	30,060,821
581 La Salle University	296	3	166i	329	215	157	244	126
582 Morris Brown College	1,227	1,010	3,796	3,652	525	525e	321i	116
583 Oral Roberts University	140	85	21	30	59	65	53	116
584 Northern Kentucky U	369	339i	309i	279i	249i	219i	185	115
585 Fairmont State College	--	--	--	--	--	27	24	110
586 Shaw University	53	56	56	115	147	110	100	100e
587 MA Col Phar Allied Hlth	181	222	275	205	235	89	89e	96i
588 Kutztown U of PA	182	345	224	175	172	265	96	92
589 Providence College	100	71	36	70	44	62	86	86e
Total, 1st 589 institutions	19,926,278	21,015,146	22,156,931	23,031,761	24,355,005	25,839,675	27,523,265	30,061,778
Total, all other sampled institutions	24,285	7,107	7,602	7,027	6,880	6,261	5,941	593

¹ Johns Hopkins University includes Applied Physics Laboratory.

² These data do not include R&D expenditures at university-associated federally funded research and development centers. See tables B-73 and B-74.

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
Total, all institutions	11,956,290	12,645,720	13,327,508	13,835,232	14,308,570	15,143,938	16,069,908	17,493,473
1 Johns Hopkins U ¹	673,601	711,692	706,049	710,119	724,526	752,983	770,580	793,266
2 U of Washington	268,819	281,033	291,284	312,695	320,784	342,291	368,112	389,622
3 Stanford University	254,379	268,559	273,157	295,373	332,272	342,426	353,947	367,127
4 University of Michigan	249,951	264,722	275,956	281,062	296,028	311,450	334,226	364,033
5 U CA San Diego	243,149	266,166	284,445	291,917	238,569	263,103	292,007	326,037
6 U of Pennsylvania	173,593	186,409	200,895	216,167	217,125	247,914	279,013	312,434
7 MA Institute of Tech ²	267,414	270,718	273,543	271,544	311,396	310,741	308,921	306,668
8 University of Colorado	138,584	158,163	169,666	177,517	192,201	228,342	244,686	300,394
9 Columbia U in City of NY	182,696	203,101	206,495	195,652	212,180	229,723	240,158	283,163
10 Harvard University	181,969	190,183	203,965	203,047	222,612	251,876	266,019	281,699
Total, 1st 10 institutions	2,634,155	2,800,746	2,885,455	2,955,093	3,067,693	3,280,849	3,457,669	3,724,443
11 U WI-Madison	213,955	225,403	229,381	233,174	233,760	240,513	249,212	278,629
12 U CA Los Angeles	189,065	190,202	201,773	236,635	215,937	234,005	251,999	274,162
13 Washington University	129,482	138,299	146,921	155,197	186,993	187,173	218,598	254,148
14 U CA San Francisco	210,148	213,252	224,271	221,864	206,749	219,630	233,181	248,878
15 Yale University	168,900	171,425	174,868	176,994	189,124	205,046	213,404	232,019
16 University of Minnesota	174,716	181,039	194,819	198,927	200,149	204,741	207,761	229,958
17 Cornell University ²	195,229	193,981	207,391	203,082	205,521	204,187	234,792	229,872
18 University of Pittsburgh	141,934	148,989	144,487	149,960	160,833	168,511	194,618	228,155
19 Pennsylvania State U	160,152	168,679	187,481	190,688	185,206	186,274	199,105	226,074
20 U of Southern California	149,965	149,735	163,606	179,281	191,809	190,547	199,619	210,872
Total, 1st 20 institutions	4,367,701	4,581,750	4,760,453	4,900,895	5,043,774	5,321,476	5,659,958	6,137,210
21 U CA Berkeley ²	156,394	152,528	157,826	168,171	159,275	171,747	191,025	208,338
22 Duke University	136,377	148,350	148,526	149,631	155,894	172,532	186,757	204,180
23 U of NC Chapel Hill	130,920	149,047	156,626	157,034	153,985	171,505	182,935	194,794
24 U of IL Urbana-Champaign	141,149	138,734	139,078	145,514	156,366	171,250	185,767	193,490
25 Baylor Col of Medicine	87,623	92,404	94,197	92,294	97,829	110,610	141,111	193,249
26 University of Arizona	113,423	145,696	168,791	154,004	152,221	161,999	178,126	187,161
27 U TX at Austin	139,126	149,586	143,939	147,808	151,954	165,082	164,913	178,889
28 California Inst of Tech ²	103,888	112,502	120,723	142,474	164,225	177,748	195,303	176,177
29 U of Alabama Birmingham	94,762	98,719	107,440	125,804	150,501	166,830	165,223	175,309
30 University of Rochester ²	130,898	135,863	125,897	112,933	118,477	130,773	132,852	150,593
Total, 1st 30 institutions	5,602,261	5,905,179	6,123,496	6,296,562	6,504,501	6,921,552	7,383,970	7,999,390
31 Case Western Reserve U	91,867	97,302	107,192	109,901	120,992	132,274	140,178	150,586
32 Northwestern University	77,687	83,684	90,387	100,810	108,292	127,911	132,647	150,238
33 Texas A&M University	122,533	136,942	136,734	148,675	145,066	144,938	149,151	149,639
34 Emory University	80,424	88,735	92,724	95,237	108,522	118,045	132,816	144,914
35 U CA Davis	105,255	112,718	122,645	130,188	104,943	114,018	124,463	141,740
36 University of Chicago ²	95,930	102,530	104,587	114,123	121,683	125,982	135,720	140,872
37 U of Iowa	93,483	99,536	103,115	105,646	108,534	115,312	122,638	140,764
38 U MD at College Park	85,041	86,051	94,071	99,688	102,928	129,198	145,081	136,605
39 Boston University	71,593	72,551	83,473	87,946	97,522	104,428	123,390	133,730
40 Ohio State University	109,069	113,186	122,660	118,811	122,582	124,177	135,216	132,219
Total, 1st 40 institutions	6,535,143	6,898,414	7,181,084	7,407,587	7,645,565	8,157,835	8,725,270	9,420,697
41 Vanderbilt University	83,683	92,439	92,185	95,684	98,744	106,325	116,887	129,986
42 Georgia Institute of Tech	98,398	97,075	104,892	116,155	112,544	113,643	112,861	126,164
43 University of Utah	83,237	81,263	83,554	93,788	99,322	100,722	111,716	124,344
44 University of Florida	71,704	79,630	79,361	86,973	94,328	106,510	122,296	120,374
45 University of Virginia	73,412	83,670	85,244	75,256	82,488	99,173	108,495	119,243
46 New York University	93,633	89,013	93,759	90,010	94,117	101,426	111,124	117,163
47 University of Cincinnati	57,394	56,361	55,107	72,543	78,292	90,307	100,325	110,475
48 Oregon Health Sciences U	38,913	43,629	49,429	51,338	68,637	82,146 <i>i</i>	95,655 <i>i</i>	109,165
49 U TX SW Med Ctr at Dallas	67,943	71,468	78,892	81,468	89,357	97,200	101,996	109,165
50 Indiana University	77,377	81,657	86,041	90,881	95,931	95,840	102,262	107,577
Total, 1st 50 institutions	7,280,837	7,674,619	7,989,548	8,261,683	8,559,325	9,151,127	9,808,887	10,594,353

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
51 University of Miami	91,472	91,563	97,111	96,716	101,516	101,492	101,883	106,633
52 U of IL Chicago	51,445	57,074	57,528	58,991	70,739	73,797	86,406	101,943
53 Yeshiva University	71,771	70,718	72,132e	73,396	77,936	80,000	89,680	101,631
54 Colorado State University	68,733	66,464	75,216	74,930	79,393	80,451	91,943	101,429
55 University of New Mexico	42,866	51,780	90,897	76,850	76,978	84,365	84,976	100,442
56 Georgetown University	48,463	54,992	74,328	81,704	84,198	84,801	83,972	98,836
57 Mt Sinai Sch Med	49,890	55,188	58,991	61,599	60,914	69,995	84,624	98,188
58 Michigan State University	70,294	73,855	77,499	77,243	82,977	81,146	89,835	97,112
59 SUNY at Stony Brook	68,023	72,673	76,505	79,570	86,568	91,531	93,937	96,641
60 SUNY at Buffalo	80,723	81,814	75,713	87,813	78,092	76,037	85,490	96,410
Total, 1st 60 institutions	7,924,427	8,350,740	8,745,468	9,030,495	9,358,636	9,974,742	10,701,633	11,593,618
61 Univ of Hawaii at Manoa	41,362	39,392	44,238	66,902	72,421	86,886	93,418	95,419
62 Purdue University	72,954	82,148	93,256	91,632	91,969	92,844	95,708	92,010
63 U of MD Baltimore	53,556	59,727	59,596	65,211	72,100	78,037	84,516	91,212
64 Carnegie Mellon U ²	78,666	87,790	84,758	91,830	91,527	95,046	90,408	91,191
65 Louisiana State U System	52,598	52,064	61,456	64,524	65,257	67,090	75,831	89,007
66 U CA Irvine	64,546	67,245	69,655	72,994	64,293	66,602	75,505	88,274
67 U TX MD Anderson Cnrc Ctr ..	41,158	42,416	44,711	42,794	49,702	63,074	69,413	81,872
68 U CA Santa Barbara	54,057	59,336	63,443	73,400	64,915	68,680	74,026	80,754
69 Oregon State University	61,118	65,069	68,687	79,977	80,131	82,416	81,649	80,398
70 Rutgers the State U NJ	55,169	68,149	72,567	67,588	68,225	69,829	75,664	79,711
Total, 1st 70 institutions	8,499,611	8,974,076	9,407,835	9,747,347	10,079,176	10,745,246	11,517,771	12,463,466
71 UT Houston Hlth Sci Ctr	38,664	46,821	54,762	61,456	67,205	70,446	71,288	79,665
72 NC State University	62,470	69,608	68,675	74,485	69,473	79,533	66,310	77,328
73 U Med & Dent of NJ	35,524	40,687	45,734	47,505	57,471	59,828	61,730	75,318
74 Princeton University ²	54,369	58,544	63,903	69,386	69,667	69,005	72,974	74,681
75 University of Kentucky	46,774	48,801	50,014	51,450	62,128	60,760	66,184	73,858
76 U of Tennessee System	76,578	82,288	76,294	73,724	74,049	69,793	70,187	72,059
77 VA Polytech Inst & St U	61,708	73,490	79,074	80,319	87,657	82,734	75,386	71,127
78 University of Kansas	37,738	40,816	42,209	41,858	46,733	50,567	57,272	68,950
79 Thomas Jefferson U	38,293	43,215	49,335	51,475	49,091	51,728	56,369	67,448
80 Woods Hole Oceanogr Inst	73,546	74,219	72,759	61,820	66,386	64,765	59,534	67,036
Total, 1st 80 institutions	9,025,275	9,552,565	10,010,594	10,360,825	10,729,036	11,404,405	12,175,005	13,190,936
81 University of Connecticut	49,051	48,286	50,096	53,009	49,503	53,189	55,496	66,144
82 Wake Forest University	41,861	36,722	50,719	55,845	54,287	56,705	60,293	65,585
83 U of Missouri Columbia	29,612	31,299	32,420	38,938	43,335	45,448	53,875	65,420
84 U TX Hlth Sci Ctr San Ant	48,467	51,671	54,433	51,203	53,478	51,954	56,904	65,251
85 Tufts University	46,625	49,672	50,481	53,508	55,421	61,167	62,836	64,677
86 Wayne State University	40,367	43,354	46,246	46,264	53,707	57,646	57,610	64,320
87 U MA Worcester	33,820	34,923	36,970	40,198	43,350	53,766	55,516	64,212
88 University of Georgia	52,085	55,005	57,509	56,254	54,364	54,712	56,080	62,678
89 SUNY at Albany	27,318	23,607	24,468	48,395	41,190	33,894	46,242	62,059
90 U TX Med Br at Galveston	30,555	32,775	33,204	38,323	42,006	48,588	55,061	61,357
Total, 1st 90 institutions	9,425,036	9,959,879	10,447,140	10,842,762	11,219,677	11,921,474	12,734,918	13,832,639
91 University of Oklahoma	33,298	35,266	37,112	42,679	45,756	54,451	57,589	60,542
92 Iowa State University ²	50,695	56,439	58,766	54,904	52,938	51,196	54,179	59,976
93 Utah State University	45,426	46,128	48,431	43,764	49,594	54,903	54,433	57,378
94 New Mexico State Univ	64,821	59,632	57,210	53,552	57,165	56,587	56,875	57,073
95 Florida State University	38,690	39,775	45,947	39,527	52,945	50,451	55,666	56,830
96 Dartmouth College	44,092	41,762	39,059	39,682	43,154	45,053	46,741	56,369
97 Medical Col of Wisconsin	31,261	31,459	31,098	34,527	39,364	43,831	47,087	55,034
98 Mississippi State U	29,616	33,918	33,158	34,637	34,928	42,004	46,528	53,808
99 Virginia Commonwealth U	48,777	47,923	46,694	45,454	44,982	48,167	48,175	52,137
100 Tulane University	36,940	42,354	60,837	49,720	49,708	52,924	50,779	52,080
Total, 1st 100 institutions	9,848,652	10,394,535	10,905,452	11,281,208	11,690,211	12,421,041	13,252,970	14,393,866

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
101 U of South Carolina	28,250	37,918	44,292	51,269	37,005	42,586	48,490	51,872
102 U of South Florida	16,718	19,910	29,558	29,751	31,068	35,930	42,005	50,557
103 Brown University	38,851	36,864	37,432	42,139	43,664	44,412	45,276	49,943
104 Arizona State University	30,032	30,699	35,215	38,947	37,700	41,359	53,905	49,935
105 George Washington U	27,698	24,379	28,031	30,490	34,182	45,072	49,944	49,627
106 Washington State U	43,678	45,691	49,043	48,807	45,030	44,510	44,610	48,441
107 U of Alaska Fairbanks	41,516	40,770	37,285	30,351	28,127	31,505	34,647	46,605
108 Rockefeller U, The	36,854	39,990	38,993	37,369	43,979	43,845	45,010	45,211
109 U MA Amherst	32,065	32,730	32,126	37,969	40,925	43,196	39,877	44,697
110 Med U of South Carolina	21,471	28,507	36,417	40,637	37,790	36,473	30,997	41,432
Total, 1st 110 institutions	10,165,885	10,731,993	11,273,844	11,668,937	12,069,681	12,829,929	13,687,731	14,872,186
111 University of Vermont	31,530	33,695	32,932	31,521	34,042	31,460	36,085	39,861
112 U of New Hampshire	23,635	25,032	21,072	23,305	24,128	25,913	30,586	38,921
113 U of Rhode Island	32,609	33,025	33,927i	34,829i	35,733	33,308	36,207	38,538
114 Temple University	26,548	27,140	28,303	28,720	26,374	28,793	29,734	38,213
115 U of Nebraska at Lincoln	23,930	35,471	36,897	32,352	41,269	41,888e	36,977	37,831
116 University of Delaware	26,170	26,250	27,352	29,509	32,031	33,688	34,628	37,716
117 Naval Postgrad School	23,640	26,225	27,155	29,873	31,618	33,308	33,308e	36,476i
118 Rice University	22,016	25,672	26,429	33,238	37,935	34,772	35,012	35,144
119 Rush University	12,787	14,831	18,124	22,480	24,382	28,444	31,119	32,573
120 University of Dayton	38,333	39,994	37,842	34,413	36,196	36,329	30,755	31,717
Total, 1st 120 institutions	10,427,083	11,019,328	11,563,877	11,969,177	12,393,389	13,157,832	14,022,142	15,239,176
121 Auburn University	17,438	27,747	27,544	31,401	27,412	27,706	27,058	31,515
122 Clemson University	23,299	24,133	28,734	28,109	28,092	28,199	27,064	31,304
123 Kansas State University	19,582	21,547	25,266	24,769	25,781	27,001	28,102	31,185
124 University of Oregon	21,465	22,204	23,789	26,411	26,020	27,041	27,336	30,793
125 Montana St U Bozeman	14,096	15,738	17,233	17,667	19,707	23,982	26,231	30,564
126 U of Arkansas Medical Sci	10,964	13,410	16,117	16,796	19,249	21,857	26,392	29,962
127 Syracuse University	16,818	19,309	19,341	18,361	23,780i	29,200	30,050	29,630
128 U Mississippi, All Camp	14,917	15,836	17,466	15,571	15,696	16,463	9,952	28,107
129 West Virginia University	31,092	34,622	30,258	30,800	29,443	24,985	26,264	28,013
130 MCP Hahnemann University	26,664	26,324	23,905	27,723	48,062	61,102	17,281	27,379
Total, 1st 130 institutions	10,623,418	11,240,198	11,793,530	12,206,785	12,656,631	13,445,368	14,267,872	15,537,628
131 University of Notre Dame	16,415	16,358	17,424	18,886	19,173	23,053	23,614	27,362
132 Northeastern University	15,339	16,037	17,113	14,706	16,321	21,454	22,776	26,916
133 Saint Louis University	18,583	18,120	19,351	21,483	23,218	23,341	23,722	26,453
134 Brandeis University	21,825	21,585	22,741	23,233	25,233	28,098	29,423	26,444
135 U of Nevada Reno	17,097	18,799	21,377	20,971	20,813	20,383	24,587	26,267
136 U CA Santa Cruz	21,821	23,802	26,043	31,727	24,005	29,881	25,084	25,959
137 U of Alabama Huntsville	24,983	21,583	25,417	26,141	21,731	23,772	25,166	25,939
138 Rensselaer Polytech Inst	22,106	22,090	24,250	24,748	22,785	21,774	22,803	25,555
139 Howard University	14,819	15,196	21,137	26,253	25,884	21,501	21,658	25,292
140 Oklahoma State University	20,840	20,440	18,951	25,034	21,455	23,220	23,179	24,770
Total, 1st 140 institutions	10,817,246	11,434,208	12,007,334	12,439,967	12,877,249	13,681,845	14,509,884	15,798,585
141 U of Maine	8,959	11,386	15,789	16,211	15,066	13,028	19,163	24,412
142 University of Idaho	15,877	16,586	18,239	16,481	17,416i	18,352	24,263	23,014
143 SUNY Hlth Sci Ctr Brklyn	17,916	16,695	18,374	18,685i	18,996	18,318	21,053	22,860
144 San Diego St University	16,862	12,268	16,436	17,181	20,237	19,721	19,724	22,802
145 C R Drew U of Med & Sci	6,483	7,674	10,500	15,288	16,052e	16,052e	22,212	21,969
146 Texas Tech University	10,897	11,360	11,450	13,013	14,901	17,481	20,242	21,481
147 University of Houston	34,350	22,830	22,633	25,448	21,695	22,018	20,443	21,365
148 U CA Riverside	19,126	23,743	25,127	27,727	24,006	22,999	19,994	21,085
149 U of Arkansas Main	14,398	16,040	17,231	16,019	15,772	16,156	15,851	20,778
150 Loyola U of Chicago	18,230	23,587	20,209i	16,831	14,771	17,685	17,588	20,695
Total, 1st 150 institutions	10,980,344	11,596,377	12,183,322	12,622,851	13,056,161	13,863,655	14,710,417	16,019,046

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
151 George Mason University	10,498	12,679	14,939	16,430	14,652	17,268	19,492	20,669
152 Florida International U	9,289	10,936	13,030	13,415	13,828	14,243	15,757	20,296
153 U MD Baltimore County	4,845	6,080	7,131	8,135	9,816	12,618	15,624	20,244
154 Desert Research Institute	15,514	15,272	15,867	14,600	13,900	15,400	16,552	19,923
155 U of Nebraska Med Ctr	10,131	12,256	13,375	14,029	13,990	15,663	17,167	19,878
156 University of Alabama, The	8,583	11,482	12,236	12,238	13,118	14,909	17,601	19,486
157 Loma Linda University	4,963	5,082	5,416	5,878	8,061	7,834	12,217	18,811
158 Univ of Montana, The	7,303	8,675	10,149	11,591	11,554	11,748	14,627	18,378
159 New York Medical College	13,468	14,913	13,778	11,657	11,866	13,639	14,029	17,975
160 University of Louisville	8,924	9,274	9,782	13,306	13,521	15,067	15,536	17,713
Total, 1st 160 institutions	11,073,862	11,703,026	12,299,025	12,744,130	13,180,467	14,002,044	14,869,019	16,212,419
161 NJ Inst of Technology	8,275	12,572	15,109	20,561	21,287	21,127	21,127	17,381
162 Boston College	8,151	7,938	9,990	11,137	11,207	12,778	14,492	16,673
163 U PR Med Sci Campus	9,775	11,973	12,433	12,191	12,978	11,843	13,971	16,657
164 Michigan Tech University	9,777	10,984	12,807	12,603	12,941	13,938	16,107	16,650
165 University of Wyoming	14,575	15,115	15,373	14,991	15,003	17,806	19,109	16,556
166 U TX at El Paso	9,229	9,085	9,511	10,471	12,873	10,758	18,292	16,416
167 Florida A&M University	18,954	20,730	19,430	20,118	22,547	15,726	20,693	16,278
168 Clark Atlanta University	10,484	11,025	15,821	25,345	25,943	24,079	12,116	16,170
169 North Dakota State U	8,756	10,877	11,684	11,683	6,432	9,787	12,308	15,463
170 Morehouse School of Med	6,597	6,663	6,996	11,747	12,099	12,461	12,948	15,419
Total, 1st 170 institutions	11,178,435	11,819,988	12,428,179	12,894,977	13,333,777	14,152,347	15,030,182	16,376,082
171 Medical Col of Georgia	7,713	9,121	11,007	11,338	11,904	13,127	13,991	15,210
172 U Southern Mississippi	6,351	7,291	7,500	7,587	7,766	9,536	14,124	15,084
173 Old Dominion University	7,050	7,888	7,968	9,266	10,736	12,346	13,706	14,908
174 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	--	14,321
175 Drexel University	11,335	11,006	9,444	11,613	10,545	10,929	12,914	14,292
176 U of North Dakota	16,467	16,660	16,157	23,976	17,775	13,404	13,615	13,880
177 U of Nevada Las Vegas	10,585	9,543	10,464	11,142	9,221	9,713	10,248	13,815
178 U of Central Florida	12,527	16,549	20,077	18,714	13,361	13,502	16,048	13,801
179 OR Grad Inst Sci & Tech	9,591	10,458	11,512	11,215	14,282	14,996e	15,303	13,743
180 CUNY City College	14,785	13,585	15,512	16,169	15,221	14,437	12,393	13,059
Total, 1st 180 institutions	11,274,839	11,922,089	12,537,820	13,015,997	13,444,588	14,264,337	15,152,524	16,518,195
181 Col of William & Mary	10,335	10,426	11,731	13,020	10,911	11,097	11,892	13,031
182 CA St U Long Beach	4,565i	4,712i	4,859i	5,013	5,013e	8,471i	11,929	12,964
183 Lehigh University	16,038	15,363	21,410	22,409	14,882	13,019	13,161	12,726
184 Wright State University	10,081	9,624	9,619	9,502	10,001	10,832	12,365	12,543
185 Florida Atlantic U	5,655	6,797	9,643	6,500	7,653	9,582	11,036	12,359
186 U of LA Lafayette	1,130	1,998	2,307	2,936	4,699	5,834	9,430	12,164
187 Eastern VA Med School	9,753	10,162	9,824	10,203	10,618	9,449	11,354	12,114
188 Georgia State University	5,826	6,771	6,277	5,818	7,544	11,284	14,310	12,090
189 Colorado School of Mines	7,050	8,161	8,847i	9,534	9,330	8,694	10,704	11,995
190 U PR Mayaguez Campus	8,487	9,369	18,048	19,568	21,052	21,903	23,784	11,837
Total, 1st 190 institutions	11,353,759	12,005,472	12,640,385	13,120,500	13,546,291	14,374,502	15,282,489	16,642,018
191 San Jose State University	11,825	11,825i	11,825i	11,825i	11,825i	11,825e	11,825e	11,825e
192 Ohio University	5,168	5,836	7,587	8,046	9,790	10,323	10,544	11,695
193 Mercer University	10,241	11,115	9,178	10,832	10,741	12,043	12,657	11,350
194 Portland State University	3,869	4,377	4,659	5,675	5,960	6,881	9,313	11,217
195 NC A&T State University	8,759	10,132	12,501	12,521	13,362	12,924	12,454	11,187
196 Univ of Memphis, The	3,504	4,027	4,565	4,954	5,413	5,849	6,364	11,177
197 U MD Biotechnology Inst	--	6,079	7,037	7,529	8,719	11,789	13,911	11,157
198 Univ Svcs U of Hlth Sci	22,319	18,124	25,858	24,621	9,218	7,547	9,696	11,023
199 Illinois Inst of Tech	6,349	6,738	9,119	11,183	11,668	9,946	9,777	10,926
200 U MD Ctr for Environ Sci	5,413	5,452	5,952	5,998	6,240	7,440	8,116	10,805
Total, 1st 200 institutions	11,431,206	12,089,177	12,738,666	13,223,684	13,639,227	14,471,069	15,387,146	16,754,380

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
201 Jackson State University	3,831	4,220	4,461 i	4,702	3,960	5,326	7,925	10,690
202 Brigham Young University	7,967	8,126	8,615	8,752e	9,223 i	9,694	11,414	10,378
203 S Illinois U Carbondale	7,437	9,931	10,100	8,836	8,632	7,801	7,660	10,130
204 Med Col of Ohio	8,286	8,726	9,243	9,559	9,766	8,107	9,219	9,944
205 U MA Lowell	5,959	7,281	8,097	10,257	11,560	12,259	10,354	9,905
206 U of Missouri Rolla	6,128	6,472	5,834	7,542	8,080	7,934	8,731	9,804
207 Meharry Medical College	9,074	10,154	10,208	11,004	11,004e	11,004e	9,192	9,192e
208 Hampton University	4,597	5,078	6,130	3,854	7,777	6,801	7,168	8,994
209 Tennessee State U	5,245	6,031	6,478	7,983	7,569	7,978	8,522	8,873
210 New Mexico Highlands U	283	1,459	1,902 i	2,345	2,446 i	2,547 i	2,648	8,861
Total, 1st 210 institutions	11,490,013	12,156,655	12,809,734	13,298,518	13,719,244	14,550,520	15,469,979	16,851,151
211 Stevens Inst of Tech	10,552	7,644	8,677	9,222	6,174	6,667	7,084	8,785
212 NM Inst Mining & Tech	5,373	7,582	8,447	7,205	10,496	8,959	10,719	8,652
213 CUNY Hunter College	6,875	7,156	6,152	6,083	6,895	6,414	7,526	8,650
214 SUNY Upstate Med U	7,238	6,555	6,854	6,764	7,188	6,487	7,889	8,461
215 U WI-Milwaukee	7,455	7,977	7,749	8,026	8,156	8,936	9,190	8,425
216 CA St U Los Angeles	3,147	2,700 i	2,253 i	1,806 i	1,359 i	912 i	463	8,344
217 U of South Alabama	8,270	8,838	9,135	9,747	9,709	9,451	9,451e	8,276
218 Polytechnic University	6,394	6,872	6,863	6,329	3,485	2,843	4,595	8,200
219 Alcorn State University	3,038	3,039	3,202 i	3,365	4,242 i	5,119	5,223	8,034
220 Northern Arizona U	6,348	5,614	6,469	6,938	8,176	6,812	7,111	7,842
Total, 1st 220 institutions	11,554,703	12,220,632	12,875,535	13,364,003	13,785,124	14,613,120	15,539,230	16,934,820
221 Kent State University	6,363	6,005	6,506	7,729	7,577	8,251	8,212	7,736
222 Albany Medical College	8,564	8,344	8,686	6,691	5,632	6,545	7,437	7,691
223 Catholic U of America	5,796	6,058	6,467	5,901	6,910	7,161	11,064	7,680
224 Prairie View A&M U	4,885	5,693	6,284	10,325	9,315	9,612	8,675	7,679
225 Cal Poly St U	729	1,372 i	2,015 i	2,658 i	3,301 i	3,948	7,673	7,605
226 U of Missouri Kansas City	4,967	4,758	4,506	5,087	5,380	6,199	7,206	7,490
227 South Dakota State U	5,033	5,711	5,622	5,500	5,650	5,812	6,086	7,448
228 U TX at San Antonio	2,185	2,685	3,398 i	4,111	11,553	5,112	5,463	7,441
229 University of Denver	7,555	6,144	9,877	7,415	7,888	9,385	9,081	7,439
230 University of Akron	4,329	4,016	4,231	4,793	5,146	4,042	7,140	7,081
Total, 1st 230 institutions	11,605,109	12,271,418	12,933,127	13,424,213	13,853,476	14,679,187	15,617,267	17,010,110
231 Alabama A&M University	7,295	8,954	8,075	8,249 i	8,423e	10,518	8,558	7,056
232 U TX at Dallas	8,031	7,224	6,404 i	5,583	6,719	8,115	7,700	7,049
233 Tuskegee University	5,154	6,694	7,200	8,231	29,930	26,894	6,942	6,694
234 Southern U A&M All Camp	4,828	4,620	7,480	7,724	7,774	6,983	6,689	6,418
235 U of Houston Clear Lake	5,411	4,582 i	3,753 i	2,924 i	2,095 i	1,266	5,387	6,383
236 SUNY at Binghamton	5,005	5,100	5,659	5,661	6,218	6,205	5,761	6,319
237 University of Toledo	3,727	3,505	3,187	3,506e	2,937	5,366	5,682	6,312
238 Southern Methodist U	4,932	4,984	4,352	6,007	4,543	4,836	6,387	6,302
239 Western Illinois U	10,096	8,983	9,045	9,016	8,804	10,867	6,595	6,112
240 U North TX Hlth Sci Ctr	3,753	4,045	3,985	4,847	5,273	5,645	5,370	5,799
Total, 1st 240 institutions	11,663,341	12,330,109	12,992,267	13,485,961	13,936,192	14,765,882	15,682,338	17,074,554
241 U PR Rio Piedras Campus	3,616	3,660	3,315	3,866	4,275	5,460	5,654	5,620
242 Marshall University	570	540	206	234	180	25	66	5,618
243 Teachers Col, Columbia U	0	190	226 i	262	560	2,900	4,119	5,613
244 Creighton University	3,962	4,653	4,474	5,046	5,129	4,096	4,929	5,541
245 University of Tulsa	2,337	3,319	3,441	5,104	4,190	4,002	5,272	5,498
246 U of NC Charlotte	2,307	2,675 i	3,043 i	3,411 i	3,779 i	4,150	4,780	5,380
247 Air Force Inst of Tech	3,252	2,426	2,229	2,291	4,212	2,228	1,540	5,371
248 U Ctrl Del Caribe Esc Med	1,426	1,664	2,387	2,353	2,072	3,208 i	4,345	5,347
249 U of NC Wilmington	4,668	4,554 i	4,440 i	4,326 i	4,212 i	4,098	4,431	5,336
250 Wichita State University	2,315	1,752	2,551	2,196	2,602	2,646	3,260	5,228
Total, 1st 250 institutions	11,687,794	12,355,542	13,018,579	13,515,050	13,967,403	14,798,695	15,720,734	17,129,106

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
251 Finch U Hlth Sci Chicago	5,033	5,214	4,789	5,209	5,022	5,022e	4,860	5,117
252 U TX at Arlington	3,995	4,637	8,692	14,804	26,829	11,294	6,089	5,106
253 Western Michigan U	2,383	2,699	2,753	3,336	3,618	4,023	4,165	4,584
254 San Francisco State U	3,964	3,909i	3,854i	3,799i	3,744i	3,689i	3,630e	4,561e
255 U of Missouri St Louis	1,818	2,559	2,840	3,349	3,650	3,975	4,841	4,523
256 U of West Florida	564	1,012i	1,460i	1,908i	2,356i	2,806	3,624	4,521
257 U.S. Air Force Academy	1,956	2,371i	2,786i	3,201i	3,616i	4,033	3,699	4,505
258 East Carolina University	4,392	5,188	4,964	4,079	3,904	4,027	4,832	4,388
259 Morgan State University	1,456	3,423	3,557i	3,691i	3,825i	3,960	1,066	4,371
260 SUNY Col Env Sci Frstry	3,177	3,351	3,186i	3,021	2,690	2,715	3,874	4,332
Total, 1st 260 institutions	11,716,532	12,389,905	13,057,460	13,561,447	14,026,657	14,844,239	15,761,414	17,175,114
261 Worcester Polytech Inst	9,164	9,584	8,552	6,967	7,315	5,230	4,292	4,219
262 SD Sch of Mines & Tech	2,556	2,903	3,369	3,278	2,990	3,221	3,300	4,127
263 Wesleyan University	2,611	2,710	2,651	3,889	3,731	3,570	3,640	4,058
264 Villanova University	980	1,061	1,362	1,390	1,471	2,470i	3,470	4,035
265 U MD Eastern Shore	2,691	1,128	1,880	1,980	2,187	2,265	2,508	3,895
266 Clarkson University	5,795	6,115	4,793	3,794	3,368	3,010	3,694	3,837
267 Idaho State University	1,149	1,489	1,471	2,054	1,128	5,200	1,258	3,723
268 University of North Texas	2,277	2,858	3,696	3,492	3,703	2,621	2,617	3,618
269 Northern Illinois U	5,663	6,238	5,764	4,809	3,460	3,344	3,727	3,603
270 Virginia State University	4,761	4,529	2,599	2,735	3,453	2,792	2,061	3,602
Total, 1st 270 institutions	11,754,179	12,428,520	13,093,597	13,595,835	14,059,463	14,877,962	15,791,981	17,213,831
271 Southwest Texas St Univ	2,151	1,944i	1,737i	1,530i	1,323i	1,116	1,871	3,519
272 U of AR at Little Rock	--	--	--	--	--	--	--	3,400e
273 Inst of Paper Sci & Tech	1,311	1,629	2,341	3,043i	3,746e	3,746e	3,398e	3,398e
274 U MA Boston	2,133	2,382	2,454	2,706	3,075	3,160	2,951	3,378
275 Cleveland State U	5,187	4,620	3,457	3,522i	3,588e	3,696e	3,655e	3,318
276 Norfolk State University	566	671	1,256	2,187	1,388	2,442	2,970	3,273
277 Ponce School of Medicine	2,436	2,874	3,150	4,212	2,607	2,783i	2,960	3,257
278 Winston Salem State U	529	780	797	1,246	1,874	1,898	1,619	3,256
279 U MA Dartmouth	1,802	2,771	3,221	3,433	2,884	3,731	3,983	3,228
280 CA St U Northridge	1,634	1,569i	1,504i	1,439i	1,374i	1,309	2,324	3,182
Total, 1st 280 institutions	11,771,928	12,447,760	13,113,514	13,619,153	14,081,322	14,901,843	15,817,712	17,247,040
281 Xavier University of LA	3,145	4,176	8,979	5,106	5,473	5,355	3,240	3,174
282 University of Guam	1,881i	1,946i	2,011i	2,076i	2,141i	2,206	2,242	3,165
283 Marquette University	2,524	2,640	2,394	2,270	2,421	3,510	3,416	3,085
284 Delaware State University	1,262	3,686	999	1,787	1,833	2,734	2,055	3,052
285 Oakland University	3,026	3,202	3,860	3,222	3,303	3,218	3,033	3,033e
286 Florida Inst of Tech	1,903	1,654	2,213	2,980	2,292	2,152	2,735	2,980
287 U Arkansas Pine Bluff	2,164	2,341	3,661	2,747	2,838	2,911	2,911e	2,911i
288 CUNY Brooklyn College	1,373	1,138	1,666	1,408	1,492	1,574e	2,228	2,866
289 U of LA Monroe, The	1,391	1,600	1,724	1,573	2,308	1,466	2,824	2,824e
290 US Naval Academy	5,640	5,019i	4,398i	3,777i	3,156i	2,534	2,234	2,770
Total, 1st 290 institutions	11,796,237	12,475,162	13,145,419	13,646,099	14,108,579	14,929,503	15,844,630	17,276,900
291 East Tennessee State U	791	1,026	830	738	714	1,368	1,400	2,768
292 MT Tech of the U of MT	1,537	1,783i	2,029i	2,275i	2,521i	2,767i	3,014	2,744
293 Western Kentucky Univ	514	1,037i	1,560i	2,083i	2,606i	3,130	2,287	2,711
294 Miami University (OH)	2,343	2,789	2,314	2,633	2,876	2,687	3,302	2,674
295 Rochester Inst of Tech	1,561	2,478	1,731	2,545	2,523	2,339e	2,690	2,664
296 Fisk University	1,418	1,514	1,741i	1,969	1,969e	2,909	2,846	2,652
297 Humboldt State University	1,279i	1,460i	1,641i	1,822i	2,003i	2,185	2,629	2,629e
298 CUNY Queens College	1,911	1,663	2,023	1,365	1,637	2,323	1,884	2,604
299 Langston University	1,570	1,929	2,661	2,521	1,828	2,031	2,340	2,553
300 U of Alaska Anchorage	0e	0i	0i	0i	0i	0e	2,537	2,537e
Total, 1st 300 institutions	11,809,161	12,490,841	13,161,949	13,664,050	14,127,256	14,951,242	15,869,559	17,303,436

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
301 Lincoln University	2,726	2,869	2,702	2,681	2,584	2,635i	2,686	2,502
302 Texas Christian U	2,693	2,600	1,972	2,159	2,541	2,493	3,257	2,441
303 Fort Valley State U	2,413	2,591	2,936	2,338	2,471	2,359	2,318	2,417
304 U of Nebraska at Omaha	507	591i	675i	759i	843i	931	2,153	2,403
305 Bowie State University	465	937	93	49	2,672	4,403	2,360	2,360e
306 Lamar University	2,158	2,320	1,549	1,451	1,169	2,307	2,914	2,330
307 Wellesley College	1,524i	1,537	1,568	2,533	2,304	2,304e	2,304i	2,304i
308 Grambling State U	155	155	145	1,450	2,630	1,936	1,936e	2,200
309 Texas A&M Univ Kingsville	1,019	1,190i	1,361i	1,532i	1,703i	1,874	1,771	2,179
310 Boise State University	557	1,452	1,597	1,875	1,932	1,892	2,595	2,151
Total, 1st 310 institutions	11,823,378	12,507,083	13,176,547	13,680,877	14,148,105	14,974,376	15,893,853	17,326,723
311 Ithaca College	126	315i	504i	693i	882i	1,075	1,607	2,131
312 Sam Houston State U	380	1,694	3,094i	4,495	4,974	2,527	3,225	2,128
313 Illinois State University	1,839	2,347	2,632	2,110	2,420	2,468e	2,057	2,108
314 Fordham University	1,006	1,304	1,327	1,421	1,472	769	1,725	2,101
315 U of South Dakota	1,511	1,357	1,632	2,350	2,239	2,669	3,373	2,084
316 Nova Southeastern U	805	885	711	861	1,003	1,500	2,637	2,060
317 N.E. Ohio Univ Col of Med	965	1,136	1,459	1,068	1,530	1,430	1,693	2,002
318 South Carolina State U	2,460	2,739	2,325i	1,910	1,948	1,968	1,978	1,988
319 Spelman College	569	954	1,277	988	1,282	1,700	1,832	1,978
320 U of the Virgin Islands	2,283	1,653	2,040i	2,428	2,428e	2,428e	1,957	1,957e
Total, 1st 320 institutions	11,835,322	12,521,467	13,193,548	13,699,201	14,168,283	14,992,910	15,915,937	17,347,260
321 Duquesne University	297	712	832	618	711	867	1,531	1,902
322 American University	3,569	3,052	2,807	2,864	2,672	3,163	2,735	1,886
323 Bowling Green State U	1,686	2,317	2,347	2,391i	2,436	2,029	1,847	1,847e
324 Texas Southern U	3,652	2,353	3,474	3,474	3,707	2,504	2,292	1,844
325 Morehouse College	1,117	730	793	591	591e	591e	1,843	1,843e
326 CA St U Fresno	650	833i	1,016i	1,199i	1,382i	1,565i	1,749e	1,823
327 CA St Poly U Pomona	918	943i	968i	993i	1,018i	1,043i	1,069	1,703
328 Le Moyne-Owen Coll	--	--	--	--	--	1,404	1,031	1,700
329 Gallaudet University	2,944	2,779i	2,614i	2,449i	2,284i	2,119	2,264	1,682
330 Clark University	1,717	2,301	1,910	1,756	2,134	1,660	2,651	1,652
Total, 1st 330 institutions	11,851,872	12,537,487	13,210,309	13,715,536	14,185,218	15,009,855	15,934,949	17,365,142
331 University of DC	1,705i	1,811e	1,784i	1,756	1,756e	1,898	1,829	1,629
332 College of Charleston	517	758i	999i	1,240i	1,481i	1,724	1,553	1,607
333 Elizabeth City State U	605	241	497i	753	1,146	575	1,040	1,558
334 Embry-Riddle Aero Univ	1,614	1,578i	1,542i	1,506i	1,470i	1,432	1,432e	1,551e
335 W Washington Univ	1,130i	1,293i	1,456i	1,619i	1,782i	1,954	2,004	1,548
336 U of NC Greensboro	1,963	1,971	2,172	1,730	1,581	1,829	1,535	1,535e
337 Loyola College	1,131	1,564	1,359	981	833	1,191	1,397	1,513
338 Tennessee Tech U	1,266	1,208	1,182	1,250	1,205	1,065	1,222	1,452
339 CUNY H H Lehman Col	0e	1,130	1,011i	891	927e	1,071i	1,216	1,444
340 Texas Woman's University	692	714	882	1,006	1,304	1,485	1,306	1,440
Total, 1st 340 institutions	11,862,495	12,549,755	13,223,193	13,728,268	14,198,703	15,024,079	15,949,483	17,380,419
341 Central Washington U	450	571i	692i	813i	934i	1,055i	1,179	1,426
342 Tarleton State University	570	572	672	911	1,177	1,483	1,623	1,426
343 Baylor Col of Dentistry	537	830	682	822	699	1,337	1,481	1,380
344 Middlebury College	559	580i	601i	622i	643i	664i	688	1,371
345 E Washington Univ	804	804i	804i	804i	804i	804e	1,244	1,366
346 Texas A&M U Corpus Chri	--	--	--	--	--	--	--	1,363
347 Williams College	1,010	1,010i	1,010i	1,010i	1,010i	1,010e	1,345	1,345e
348 CUNY York College	905	819	882	903	1,271	1,480	1,372	1,317
349 Chicago State University	1,048	1,237	717	739	738	696	1,254	1,248
350 Alfred University	797	859	1,004	600	445	1,348	1,491	1,227
Total, 1st 350 institutions	11,869,175	12,557,037	13,230,257	13,735,492	14,206,424	15,033,956	15,961,160	17,393,888

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
351 Eastern Michigan U	408	489i	570i	651i	732i	813i	895	1,213
352 Maharishi U of Mgmt	0e	776	640	0	0	0	0	1,213
353 Barnard College	1,007	1,031	813	678	685e	1,038	1,008	1,198
354 Alabama State University	528	1,026	970	970	787	1,133	1,190	1,190e
355 CA St U Fullerton	1,028i	1,028i	1,028i	1,028i	1,028i	1,028e	1,028i	1,148i
356 Benedict College	600	925	740i	552i	552i	745i	938i	1,143
357 Mount Holyoke College	564i	597i	630i	663i	696i	733	975	1,135
358 U of TX Pan American	956	1,011i	1,066i	1,121i	1,176i	1,233	1,068	1,135
359 John Carroll University	332	455i	578i	701i	824i	947i	1,072	1,072e
360 SUNY Col Old Westbury	400	412	517	510	743	767	485	1,067
Total, 1st 360 institutions	11,874,998	12,564,787	13,237,809	13,742,366	14,213,647	15,042,393	15,969,819	17,405,402
361 Long Island University	109	145	77	14	700	1,197	1,116	1,044
362 Harvey Mudd College	352	465i	578i	691i	804i	917i	1,032	1,032e
363 U WI-La Crosse	211	141	601	748	510	562	686	1,001
364 Haverford College	593i	584	496	635	933	820	937	1,000
365 Amherst College	1,039	1,004i	969i	934i	899i	861	726	999
366 Seton Hall University	2,893i	3,072	1,214e	1,228i	1,243e	1,243	1,116	996
367 St. Cloud State Univ	195	353i	511i	669i	827i	987	987e	987e
368 U of Northern Colorado	185	177	196	470	702	609e	526	982
369 Bryn Mawr College	1,277	1,294	1,411	1,039	871	910	764	978
370 New England Col Opt	65	120	0	437	715	1,020	1,118	950
Total, 1st 370 institutions	11,881,917	12,572,142	13,243,862	13,749,231	14,221,851	15,051,519	15,978,827	17,415,371
371 Georgia Southern U	778	787i	796i	805i	814i	823i	833	944
372 St John's University (NY)	590	862	941	1,227	1,230	916	1,177	938
373 Coastal Carolina U	--	--	--	--	--	--	--	923
374 Colgate University	--	--	--	--	--	--	--	917
375 CA St U Dominguez Hills	522	1,090i	1,658i	2,226i	2,794i	3,362i	3,932	909
376 Savannah State Univ	168	128	214	317	316	331i	513	905
377 State U of West Georgia	39	162i	285i	408i	531i	654i	777i	900
378 CA St U San Bernardino	108	138i	168i	198i	228i	258	697	880
379 U WI-Stout	954	835	741	881	774	986	782	880
380 Ball State University	606	696	820	1,459	1,329	959	835	873
Total, 1st 380 institutions	11,885,682	12,576,840	13,249,485	13,756,752	14,229,867	15,059,808	15,988,373	17,424,440
381 New School University	376	616	682i	748i	814	773	1,069	873
382 Hampshire College	558	586	775i	964i	1,155	1,264	662	872
383 CUNY Col Staten Island	705	652	503	557	559	739	595	858
384 University of Richmond	390	718	288	464	588	781	812	849
385 Towson University	171	146	178	148	170	268	1,028	846
386 Albany State University	1,068	675	675i	675e	675e	1,019	1,019e	840
387 Albany Col of Pharmacy	--	--	--	--	--	--	--	839
388 Mississippi Valley St U	213	319	471	586	563	350	495	834
389 U of Central Arkansas	--	--	--	--	--	--	--	820
390 Claremont Graduate Sch	53	293	201	256	259	123	384	798
Total, 1st 390 institutions	11,889,216	12,580,845	13,253,258	13,761,150	14,234,650	15,065,125	15,994,437	17,432,869
391 St. Joseph's Univ	135	200i	265i	330i	395i	462	185	797
392 CUNY John Jay Col Cr Just	412	164	141	579	565	912	951	779
393 Grinnell College	117	117i	117i	117i	117i	117e	210	774
394 Smith College	544i	627	661i	695i	730	634	240	774
395 CA Sch Prof Psy-Fresno	74	452	673i	895	811	608	210	773
396 North Carolina Central U	313	409	813	804i	795i	786i	777e	761i
397 Carleton College	336	346i	356i	366i	376i	386i	398	760
398 Bucknell University	291	355i	419i	483i	547i	611i	679	754
399 Trinity University	858	831i	804i	777i	750i	723i	692	746
400 James Madison University	461	513i	565i	617i	669i	722	763	712
Total, 1st 400 institutions	11,892,757	12,584,859	13,258,072	13,766,813	14,240,405	15,071,086	15,999,542	17,440,499

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
401 Lincoln University (PA)	432	502	818i	1,135	949	1,364	972	709
402 Kentucky State University	2,349	2,665	2,920	2,761	2,139	703	703e	703i
403 SUNY Col of Optometry	164	258	130	327	268	386	755	698
404 West Chester U of PA	398	945	1,017	271	148	462	547	697
405 Oberlin College	0i	691						
406 Pomona College	455	440i	425i	410i	395i	376	654	678
407 U of Houston Downtown	900	890i	880i	870i	860i	850i	838	660
408 Hofstra University	1,073	1,786	2,218	192	319	319	659	649
409 Louisiana Tech University	687	505	950i	1,395i	1,840i	2,287	2,287e	631
410 Murray State University	325	309	284	362	422	554	388	629
Total, 1st 410 institutions	11,899,540	12,593,159	13,267,714	13,774,536	14,247,745	15,078,387	16,007,345	17,447,244
411 Southeastern Louisiana U	77	155i	233i	311i	389i	467i	550	629
412 University of Hartford	0e	148	300	41	27	124	299	629
413 SUNY Col at Plattsburgh	741	629	625	740	692	802	432	610
414 Franklin & Marshall Coll	536	573i	610i	647i	684i	723	348	604
415 Hope College	520	579i	638i	697i	756i	815i	879	602
416 SUNY Col at Oswego	299	638	595i	551	459	480	478	587
417 Bethune Cookman College	218	358	0	333	472	566	583	586
418 Swarthmore College	592	582	538	661	511	586	586e	586e
419 Bennett College	122	105	111	93i	93e	583	583e	583i
420 SUNY Col at Buffalo	1,290	1,095	1,029	1,786	1,207	1,054	1,167	577
Total, 1st 420 institutions	11,903,935	12,598,021	13,272,393	13,780,396	14,253,035	15,084,587	16,013,250	17,453,237
421 Santa Clara University	422	422e	439i	450i	479i	506i	533i	574i
422 Union College (NY)	444	194	538	610	343	126	608	553
423 University of the Pacific	1,043	60	970	860	1,755	254	844	546
424 Occidental College	1,513e	1,513i	1,513i	1,513i	1,513i	1,513e	297	545
425 Indiana U of PA All Cmp	196	159	283	520	491	491e	354	544
426 Kirksville Col Osteo Med	369	478	715	482	381	329	311	542
427 Evergreen State Coll	288	323i	358i	393i	428i	463i	498i	537
428 Virginia Union University	--	--	--	--	--	537	537e	537i
429 CUNY Grad Ctr	2,386	2,341	2,709i	3,077i	3,445	3,573	515	532
430 St Olaf College	179	219i	259i	299i	339i	379i	424	530
Total, 1st 430 institutions	11,910,775	12,603,730	13,280,177	13,788,600	14,262,209	15,092,758	16,018,171	17,458,677
431 PA College of Optometry	479	447i	415i	383i	351i	319i	283	525
432 Furman University	179	200	480	475	533	315	208	524
433 Stephen F Austin St U	330	441	985	1,684	2,285	1,125	776	521
434 CA Sch Prof Psy S Diego	0	0	431	99	267	517	517e	517e
435 McNeese State University	26	0	131	131e	25	256	611	512
436 Fayetteville State U	273	437	470i	503i	139	378	265	507
437 Southwest Missouri St U	311	368i	425i	482i	539i	596	484	484e
438 DePaul University	893	868	856	842	926	822	571	478
439 Middle Tennessee State U	36	44	55	119	107	127	319	478
440 Tougaloo College	636	745	806i	867i	929	657	767	473
Total, 1st 440 institutions	11,913,938	12,607,280	13,285,231	13,794,185	14,268,310	15,097,870	16,022,972	17,463,696
441 Hamilton College	359	359i	359i	359i	359i	359e	414i	469
442 Midwestern University	303	465	458	613	756	491	443	467
443 Bates College	112	101	285	387	306	411	576	463
444 CA St U Bakersfield	291	258i	225i	192i	159i	126i	92e	459
445 Wentworth Inst of Tech	1,634	1,434	1,155	1,023	591	933	669	452
446 CA St U Chico	270	270	295	107	1,090	1,497	850	450
447 Oakwood College	186	161	300	371	716	690	447	447e
448 Radford University	--	--	--	--	--	103	115	444
449 Spalding University	0	5	15	0	0	176	0	441
450 University of San Diego	302	502	574	167	157	334	282	422
Total, 1st 450 institutions	11,917,395	12,610,835	13,288,897	13,797,404	14,272,444	15,102,990	16,026,860	17,468,210

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
451 Rose-Hulman Inst of Tech	132	234 <i>i</i>	336 <i>i</i>	438 <i>i</i>	540 <i>i</i>	642 <i>i</i>	748	420
452 US Coast Guard Academy	310	308 <i>i</i>	306 <i>i</i>	304 <i>i</i>	302 <i>i</i>	300	300	405
453 University San Francisco	484	437 <i>i</i>	390 <i>i</i>	343 <i>i</i>	296 <i>i</i>	249 <i>i</i>	200 <i>e</i>	400
454 Lewis and Clark College	123	160 <i>i</i>	197 <i>i</i>	234 <i>i</i>	271 <i>i</i>	309	394	392
455 Phila Col Osteopathic Med	830	304	238	91	95	57	99	392
456 Reed College	385	371 <i>i</i>	357 <i>i</i>	343 <i>i</i>	329 <i>i</i>	315 <i>i</i>	300 <i>e</i>	391
457 Dickinson College	--	--	--	--	--	1,168	653	390
458 SUNY Col at Geneseo	317	194	101	251	218	229	183	389
459 St Mary's Col of MD	--	--	--	--	--	--	--	378
460 U of Northern Iowa	485	565	1,099	712	588	496	344	378
Total, 1st 460 institutions	11,920,461	12,613,408	13,291,921	13,800,120	14,275,083	15,106,755	16,030,081	17,472,145
461 U of Southern Colorado	1,031	1,131	1,264	959	616	538	642	370
462 Grand Valley State U	0	10	0	30	42	92	309	368
463 Western Carolina U	83	114	116	95	218	277	300	354
464 Baylor University	407	368	502	433	615	522	522 <i>e</i>	353
465 SUNY Col at Brockport	171	234	231 <i>e</i>	288	264	349	308	344
466 Augsburg College	678	616 <i>i</i>	554 <i>i</i>	492 <i>i</i>	430 <i>i</i>	368 <i>i</i>	303	337
467 Lafayette College	283	285 <i>i</i>	287 <i>i</i>	289 <i>i</i>	291 <i>i</i>	295	354	331
468 Trinity College	292	331 <i>i</i>	370 <i>i</i>	409 <i>i</i>	448 <i>i</i>	487 <i>i</i>	529	326
469 Vassar College	517	517 <i>i</i>	517 <i>i</i>	517 <i>i</i>	517 <i>i</i>	517 <i>e</i>	419 <i>i</i>	321
470 U of Detroit Mercy	770	1,339	1,213	950	877	494	310	314
Total, 1st 470 institutions	11,924,693	12,618,353	13,296,975	13,804,582	14,279,401	15,110,694	16,034,077	17,475,563
471 Milwaukee School of Eng	10	50 <i>i</i>	90 <i>i</i>	130 <i>i</i>	170 <i>i</i>	211	269	306
472 Pitzer College	280	197	190 <i>i</i>	182	164	197	246	299
473 Manhattan College	804	709 <i>i</i>	614 <i>i</i>	519 <i>i</i>	424 <i>i</i>	327	70	293
474 Bridgewater State College	479	419 <i>i</i>	359 <i>i</i>	299 <i>i</i>	239 <i>i</i>	179 <i>i</i>	114	287
475 Central State University	1,272	1,180	1,171 <i>i</i>	1,162 <i>i</i>	1,153 <i>i</i>	1,144	1,144 <i>e</i>	283 <i>e</i>
476 Whitman College	180	156 <i>i</i>	132 <i>i</i>	108 <i>i</i>	84 <i>i</i>	58	181	283
477 College of Wooster	151	179	191	172 <i>i</i>	153	244	318	276
478 U of Findlay	--	--	--	--	--	--	--	275
479 Valparaiso University	260 <i>i</i>	293	262 <i>i</i>	231 <i>i</i>	200	259	500	275
480 Western U of Hlth Sci	0	68	67	115	40	253	253 <i>e</i>	272 <i>i</i>
Total, 1st 480 institutions	11,928,129	12,621,604	13,300,051	13,807,500	14,282,028	15,113,566	16,037,172	17,478,412
481 East Stroudsburg U of PA	100	163 <i>i</i>	226 <i>i</i>	289 <i>i</i>	352 <i>i</i>	415 <i>i</i>	480	271
482 Calvin College	262	269 <i>i</i>	276 <i>i</i>	283 <i>i</i>	290 <i>i</i>	297 <i>i</i>	306	270
483 Kettering University	120	134 <i>i</i>	148 <i>i</i>	162 <i>i</i>	176 <i>i</i>	192	89	270
484 Arkansas State University	33	56 <i>i</i>	79 <i>i</i>	102 <i>i</i>	125 <i>i</i>	152	224	267
485 U WI-Green Bay	152	143	218	215	238	238	240	267
486 CUNY Medger Evers Col	--	--	--	--	--	--	--	258
487 Knox College	416	393 <i>i</i>	370 <i>i</i>	347 <i>i</i>	324 <i>i</i>	301 <i>i</i>	278 <i>i</i>	254
488 Southern Oregon Univ	83	122 <i>i</i>	161 <i>i</i>	200 <i>i</i>	241	230	205	253
489 Indiana State University	391	367	369	532	669	592	368	251
490 Claflin College	180	103	290	474	1,074	1,028	250	250 <i>e</i>
Total, 1st 490 institutions	11,929,866	12,623,354	13,302,188	13,810,104	14,285,517	15,117,011	16,039,612	17,481,023
491 Johnson C Smith U	377	1,803	1,083	1,083	1,546	4,299	8,659	250
492 Kennesaw State Univ	121	148	71	111	141	132	142	249
493 U WI-Oshkosh	245	207	172	119	199	268	307	248
494 Pittsburg State U	220	0	0	30	69	229	94	247
495 Salem-Teikyo University	--	--	--	--	--	271	247	239
496 Denison University	140	153 <i>i</i>	166 <i>i</i>	179 <i>i</i>	192 <i>i</i>	205 <i>i</i>	221	238
497 Pace University All Cmp	0e	0e	0	0	0	555	435	236
498 Wilberforce University	200	505	384	323	236	236 <i>e</i>	236 <i>i</i>	236 <i>i</i>
499 University of Portland	48	59	92	119	127	55	105	235
500 SUNY Col at Cortland	173	236	168	246	235	26	30	233
Total, 1st 500 institutions	11,931,390	12,626,465	13,304,324	13,812,314	14,288,262	15,123,287	16,050,088	17,483,434

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
501 Bowdoin College	257	325	290	388	137	213	154	228
502 Sul Ross State University	47	9	21	137	148	156	74	228
503 U of NC Asheville	286	274i	262i	250i	238i	226i	213	227
504 Rider University	--	--	--	--	--	--	--	225
505 U WI-Whitewater	80	92	197	233	171	145	106	223
506 U of Sci in Philadelphia	160	250	300	342	269	162	162e	222
507 U WI-Eau Claire	179	396	224	242	325	395	338	219
508 Southern Connecticut St U	268	240i	212i	184i	156i	128i	100	215
509 U WI-Parkside	310	220	174	112	132	119	108	212
510 Fairfield University	105	119i	133i	147i	161i	175i	189i	203
Total, 1st 510 institutions	11,933,082	12,628,390	13,306,137	13,814,349	14,289,999	15,125,006	16,051,532	17,485,636
511 Lake Forest College	0	5i	10i	15i	20i	28	74	200
512 S Illinois U Edwardsville	317	303i	289i	275i	261i	244	147	200
513 Drake University	191	187i	183i	179i	175i	171i	167	198
514 U WI-Stevens Point	399	701	860	629	413	306	257	193
515 Eastern Kentucky U	379	1,549i	2,719i	3,889i	5,059i	6,229i	7,403	192
516 Youngstown State Univ	90	173i	256i	339i	422i	508	144	191
517 Macalester College	125	132i	142i	152i	160i	169i	177i	186i
518 Ohio Wesleyan University	245	260	250	444	340	106	185	185e
519 Dillard University	0	110	145	314	164	164e	164	182
520 U of IL Springfield	--	--	--	--	--	--	--	182
Total, 1st 520 institutions	11,934,828	12,631,810	13,310,991	13,820,585	14,297,013	15,132,931	16,060,250	17,487,545
521 Monmouth University	357e	694	739	614	635	248	178	178e
522 Minnesota State, Mankato	187	224i	261i	298i	335i	372	164	175
523 Truman State University	58	58e	91i	125	223	156	156e	174i
524 Southeast Missouri St U	95	112i	129i	146i	163i	180i	200e	173
525 Abilene Christian Univ	216	206i	196i	186i	176i	162	114	165
526 Texas A&M U Commerce	39	41	42	80	55	122	109	157
527 Bradley University	71	183i	295i	407i	519i	632	218	146
528 Montclair State U	65	76i	87i	98i	109i	120i	132i	146
529 Colorado College	81	86i	91i	96i	101i	106	47	145
530 Central Michigan U	628	406	310i	213	107i	0	142	142e
Total, 1st 530 institutions	11,936,625	12,633,896	13,313,232	13,822,848	14,299,436	15,135,029	16,061,710	17,489,146
531 College of the Holy Cross	545	307	379	1,245	265	251	151	142
532 West Texas A&M U	25	42i	59i	76i	93i	114	93	140
533 Fort Lewis College	494	460	332	204	323	149	157	139
534 SUNY Purchase College	67	116	138i	161	211	160	188	139
535 Rust College	346	389	332	0	0	317	114	138
536 Central Connecticut St U	68	77i	86i	95i	104i	113i	122i	137
537 Des Moines U Ost Med Ctr	343	327	0	0	0	2	309	134
538 Appalachian State U	284	412	440	303	244	247	219	128
539 U of Southern Maine	392e	361i	330i	299i	268i	236	123	123e
540 Lawrence Tech Univ	45	46i	47i	48i	49i	51	57	121
Total, 1st 540 institutions	11,939,234	12,636,433	13,315,375	13,825,279	14,300,993	15,136,669	16,063,243	17,490,487
541 SUNY Col at Fredonia	98	55	148	144	100	93	52	120
542 Morris Brown College	1,227	927	3,796	2,422	525	525e	321i	116
543 New York Inst Technology	141	174	41	30	28	38	92	114
544 Juniata College	23	41i	59i	77i	95i	113i	135	105
545 Fairmont State College	--	--	--	--	--	20	12	102
546 Shaw University	53	56	56	115	122	110	100	100e
547 U of Alaska, SE	--	--	--	--	--	127	57	99
548 Cooper Union	50	50i	50i	50i	50i	50e	34	94
549 Arkansas Tech Univ	43	45i	47i	49i	51i	55	137	92
550 Allegheny College	258	257i	256i	255i	254i	253i	252	88
Total, 1st 550 institutions	11,941,127	12,638,038	13,319,828	13,828,421	14,302,218	15,138,053	16,064,435	17,491,517

See explanatory information and SOURCE at end of table.

**Table B-33. Federally financed R&D expenditures at universities and colleges,
ranked by fiscal year 2000 federally financed R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
551 Andrews University	82	109	103	252	106	117	117e	87
552 CUNY Baruch Col	354	259	142	41	15	83i	151	87
553 Gustavus Adolphus Col	85	100i	115i	130i	145i	160i	179	85
554 Pont Catholic U of PR, The	0	0	20	20e	64	78	96	85
555 Kutztown U of PA	46	206	160	157	100	192	82	84
556 Colby College	82	84i	86i	88i	90i	93	121	83
557 Point Loma Nazarene Col	43	48i	53i	58i	63i	68i	73i	83
558 Fuller Theological Sem	80	0	0i	0	21	21e	80	80e
559 Wesleyan Col (Macon)	--	--	--	--	--	--	--	79
560 Willamette University	--	--	--	--	--	137	29	77
Total, 1st 560 institutions	11,941,899	12,638,844	13,320,507	13,829,167	14,302,822	15,139,002	16,065,363	17,492,347
561 Simmons College	350	311i	272i	233i	194i	155i	112	74
562 Adelphi University	98	98e	220	221	329	80	130	73
563 Chapman U	0	10i	20i	30i	40i	50i	60i	73
564 Philander Smith College	157	137	145	73	73	73e	72	72e
565 Regis University	93	86i	79i	72i	65i	58	93	69
566 Skidmore College	0	14i	28i	42i	56i	74	61	67
567 Oral Roberts University	0	28	0	0	20	16	6	62
568 St. Mary's University	264	212i	160i	108i	56i	0	0	62
569 Southern U New Orleans	--	--	--	--	--	--	--	60e
570 Jarvis Christian College	336	219	219	102	83	55	56	55
Total, 1st 570 institutions	11,943,197	12,639,959	13,321,650	13,830,048	14,303,738	15,139,563	16,065,953	17,493,014
571 Virginia Military Inst	252	240	217	240	175	67	92	50
572 U of Nebraska at Kearney	0	7i	14i	21i	28i	35i	42i	49
573 Northern Kentucky U	244	216i	188i	160i	132i	104i	71	41
574 Widener U All Campuses	0	0	0	0	0	0	70	37
575 Sonoma State University	--	--	--	--	--	145	16	33
576 U WI-Superior	1,338	1,411	1,274	619	169	96	97	33
577 Providence College	55	29	22	39	20	17	29	29e
578 W State Coll Colorado	51	49i	47i	45i	43i	37	20	28
579 CA Sch Prof Psy-Alameda	0	0	27	20	69	77	25	25e
580 Fairleigh Dickinson U	53	53e	53e	35i	17	7	7	24
Total, 1st 580 institutions	11,945,190	12,641,964	13,323,492	13,831,227	14,304,391	15,140,148	16,066,422	17,493,363
581 Northeastern Illinois U	0	0	16	62	110	68	18	24
582 U WI-River Falls	312	70	19	55	71	69	69	24
583 Pacific University	0	0	0	0	0	0	0	20
584 University of New Haven	49	134	203i	272	188i	104i	19	19e
585 Nicholls State U	--	--	--	--	--	--	--	14
586 U of Central Oklahoma	66	66i	66i	66i	66i	65	121	9
587 Antioch University	116	85	81	0	0	0	0	0
588 Azusa Pacific U	--	--	--	--	--	--	--	0e
589 Biola University	0	0	0	0	0	0	0	0
Total, 1st 589 institutions	11,945,733	12,642,319	13,323,877	13,831,682	14,304,826	15,140,454	16,066,649	17,493,473
Total, all other sampled institutions	10,557	3,401	3,631	3,550	3,744	3,484	3,259	0

¹ Johns Hopkins University includes Applied Physics Laboratory.

² These data do not include R&D expenditures at university-associated federally funded research and development centers. See tables B-73 and B-74.

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-34. Non-Federal R&D expenditures at universities and colleges,
ranked by fiscal year 2000 non-Federal R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
Total, all institutions	7,994,273	8,376,533	8,837,025	9,203,556	10,053,315	10,701,998	11,459,298	12,568,898
1 U CA Berkeley	127,952	137,104	133,374	148,149	218,101	248,679	260,514	310,176
2 U WI-Madison	158,407	167,315	174,160	179,396	186,050	203,182	250,476	275,732
3 U CA Los Angeles	88,909	89,667	101,895	118,010	182,928	213,362	225,621	256,664
4 Texas A&M University	200,158	218,808	225,805	218,308	221,732	248,782	253,052	247,629
5 Ohio State University	112,391	117,329	123,627	143,336	166,518	177,341	187,594	229,180
6 U CA Davis	118,503	117,429	121,471	124,416	162,398	174,778	183,487	223,049
7 Pennsylvania State U	122,507	134,318	143,400	147,250	154,749	176,369	180,297	201,501
8 NC State University	93,154	103,799	111,516	116,263	159,819	174,721	204,311	200,618
9 University of Georgia	120,189	132,844	148,747	153,103	171,093	163,233	181,413	195,798
10 U CA San Francisco	104,451	99,141	105,471	98,893	136,635	160,340	183,914	194,135
Total, 1st 10 institutions	1,246,621	1,317,754	1,389,466	1,447,124	1,760,023	1,940,787	2,110,679	2,334,482
11 University of Florida	71,262	68,962	119,855	168,126	178,045	168,352	182,151	193,318
12 U CA San Diego	63,902	65,735	72,888	79,592	138,086	155,687	169,625	192,522
13 University of Michigan	175,917	166,056	167,114	187,814	187,457	185,311	174,393	187,523
14 University of Minnesota	157,317	136,826	141,705	142,252	162,946	155,582	163,623	181,422
15 Cornell University	115,720	118,702	136,395	136,452	145,509	159,324	160,760	180,521
16 U of IL Urbana-Champaign	111,662	106,673	107,096	123,481	130,104	158,016	172,480	179,534
17 Georgia Institute of Tech	77,475	96,555	106,983	109,478	127,693	145,590	150,864	178,347
18 Louisiana State U System	106,225	113,793	125,267	131,804	140,184	141,838	149,977	162,226
19 University of Arizona	122,105	124,243	123,560	125,652	133,057	140,329	142,119	157,929
20 Duke University	66,057	71,870	70,177	92,604	95,642	109,856	161,517	152,445
Total, 1st 20 institutions	2,314,263	2,387,169	2,560,506	2,744,379	3,198,746	3,460,672	3,738,188	4,100,269
21 Rutgers the State U NJ	105,856	105,062	119,696	117,515	114,813	127,224	138,174	145,557
22 Purdue University	76,078	90,585	110,163	115,319	114,619	123,635	130,703	142,526
23 Baylor Col of Medicine	84,629	94,461	96,178	92,319	94,915	105,918	131,087	140,926
24 U of Washington	66,510	72,912	97,876	93,777	89,175	95,900	114,547	139,720
25 U of MD Baltimore	58,216	51,139	48,278	56,996	62,708	65,284	56,387	133,134
26 Michigan State University	80,567	89,430	104,510	105,346	107,201	112,465	118,077	130,622
27 University of Kentucky	56,137	56,738	61,920	67,271	62,676	100,586	107,850	128,534
28 VA Polytech Inst & St U	74,063	74,823	69,427	63,496	82,151	84,384	93,864	121,545
29 Indiana University	50,500	54,960	59,471	63,379	69,267	75,914	92,528	120,160
30 MA Institute of Tech	109,999	104,050	97,257	109,068	99,534	102,357	111,385	119,631
Total, 1st 30 institutions	3,076,818	3,181,329	3,425,282	3,628,865	4,095,805	4,454,339	4,832,790	5,422,624
31 U of Pennsylvania	60,236	65,052	71,498	72,263	79,016	85,563	104,556	117,955
32 U MD at College Park	144,303	112,297	115,874	117,269	112,999	93,992	112,547	115,824
33 Iowa State University	97,764	99,543	96,166	97,010	102,495	105,570	107,122	115,582
34 Washington University	49,847	54,079	62,179	63,443	75,433	82,377	97,008	108,068
35 Johns Hopkins U	71,914	72,351	82,638	88,349	104,715	100,637	103,938	107,890
36 U TX MD Anderson Cnrc Ctr ..	86,317	79,941	77,470	78,170	79,876	78,186	85,713	100,324
37 U of Nebraska at Lincoln	71,029	67,275	70,824	70,108	75,831	76,969e	94,069	98,192
38 U of Iowa	55,328	57,500	61,778	72,582	75,880	83,751	84,497	96,180
39 Northwestern University	84,612	86,265	83,344	86,452	92,651	95,324	101,162	95,536
40 University of Connecticut	84,003	88,454	89,860	94,513	91,337	81,259	79,490	94,940
Total, 1st 40 institutions	3,882,171	3,964,086	4,236,913	4,469,024	4,986,038	5,337,967	5,802,892	6,473,115
41 U of South Florida	58,604	66,276	63,200	64,406	68,581	68,395	81,956	94,840
42 U TX at Austin	110,032	111,016	84,737	93,798	87,067	79,761	93,209	93,922
43 U of IL Chicago	55,507	56,667	61,853	62,549	68,557	77,942	88,687	93,896
44 U of Missouri Columbia	76,581	89,957	90,450	80,141	84,843	90,613	95,127	93,441
45 Wayne State University	45,260	51,278	59,894	65,887	70,676	80,810	89,222	92,494
46 U of Tennessee System	67,084	71,052	75,022	75,607	80,181	80,901	88,743	91,631
47 SUNY at Buffalo	47,480	59,278	68,055	49,888	57,571	75,613	81,333	91,282
48 University of Oklahoma	58,721	60,481	65,225	66,392	68,631	72,410	84,496	90,360
49 U of Southern California	50,857	57,540	58,553	64,977	67,437	78,259	81,122	89,573
50 Stanford University	52,297	50,002	45,714	56,153	63,038	67,883	72,602	87,653
Total, 1st 50 institutions	4,504,594	4,637,633	4,909,616	5,148,822	5,702,620	6,110,554	6,659,389	7,392,207

See explanatory information and SOURCE at end of table.

**Table B-34. Non-Federal R&D expenditures at universities and colleges,
ranked by fiscal year 2000 non-Federal R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
51 Clemson University	55,270	52,439	54,149	56,727	55,942	61,951	72,277	83,599
52 U TX SW Med Ctr at Dallas	46,315	46,930	46,409	48,694	51,232	56,511	63,524	80,051
53 University of Kansas	47,396	54,885	58,493	58,791	62,160	66,548	75,480	79,720
54 Rockefeller U, The	37,542	34,468	60,355	68,226	66,020	71,649	76,509	78,927
55 Mississippi State U	40,684	42,283	38,987	49,487	49,229	58,406	64,368	78,695
56 U of NC Chapel Hill	48,237	52,575	52,492	51,495	67,395	63,791	69,832	74,278
57 U CA Irvine	36,085	37,533	40,253	46,653	55,376	63,813	66,337	70,163
58 SUNY at Stony Brook	39,794	40,578	46,106	46,807	50,056	50,235	55,045	66,666
59 University of Pittsburgh	36,844	36,388	41,970	39,866	41,700	45,331	54,859	66,654
60 Univ of Hawaii at Manoa	32,599	30,687	34,191	44,300	47,686	61,121	63,392	65,881
Total, 1st 60 institutions	4,925,360	5,066,399	5,383,021	5,659,868	6,249,416	6,709,910	7,321,012	8,136,841
61 U Med & Dent of NJ	40,886	46,179	50,631	51,030	52,912	54,663	64,547	65,633
62 New York University	36,141	50,189	55,176	55,864	59,171	55,026	56,055	65,042
63 Yale University	57,950	53,514	56,951	57,907	56,412	57,634	60,646	64,687
64 Oklahoma State University	52,080	50,368	56,955	57,926	41,025	48,246	59,929	63,515
65 University of Utah	22,026	22,508	22,088	20,635	36,589	42,234	42,127	63,317
66 U CA Riverside	39,939	37,252	37,412	43,768	51,480	56,776	55,827	62,495
67 University of Cincinnati	35,118	37,238	36,052	55,190	63,312	69,388	52,677	61,610
68 Emory University	39,701	47,451	55,454	53,931	55,097	54,839	56,354	61,156
69 Auburn University	50,713	57,022	58,022	55,957	58,048	60,062	53,486	61,097
70 Kansas State University	42,980	44,149	45,837	46,453	51,115	54,232	57,478	60,605
Total, 1st 70 institutions	5,342,894	5,512,269	5,857,599	6,158,529	6,774,577	7,263,010	7,880,138	8,765,998
71 Oregon State University	52,886	54,703	54,715	51,357	51,336	55,824	57,636	60,353
72 Princeton University	41,192	40,743	40,254	42,994	44,882	46,991	51,263	60,194
73 Harvard University	75,238	88,276e	72,457	79,396	77,349	54,224	60,174	60,111
74 Arizona State University	36,110	31,864	41,794	45,706	43,040	50,660	53,279	58,182
75 U of Alabama Birmingham	39,028	43,016	51,339	44,389	53,257	60,890	66,892	58,152
76 Washington State U	48,756	49,128	47,767	49,834	52,670	50,912	52,333	56,355
77 U of Alaska Fairbanks	25,180	35,323	34,931	41,030	42,816	44,101	54,178	55,895
78 University of Virginia	42,374	45,834	51,435	22,078	31,597	39,962	48,992	55,279
79 University of Colorado	54,633	76,104	74,266	73,784	77,615	82,861	73,932	53,134
80 U of South Carolina	28,812	36,083	35,418	27,350	40,850	50,199	57,345	52,526
Total, 1st 80 institutions	5,787,103	6,013,343	6,361,975	6,636,447	7,289,989	7,799,634	8,456,162	9,336,179
81 U MA Amherst	32,046	32,614	33,956	35,709	44,886	46,774	46,699	52,355
82 Mt Sinai Sch Med	25,537	30,991	33,017	30,806	33,862	39,453	43,141	51,658
83 Colorado State University	46,652	45,993	46,956	51,771	49,187	59,728	58,338	50,850
84 U of Arkansas Main	43,927	41,775	42,179	43,734	49,096	55,530	45,734	50,039
85 Florida State University	24,239	36,813	40,113	38,598	42,963	44,012	42,007	48,265
86 Carnegie Mellon U	39,595	34,790	40,901	44,684	43,427	42,404	51,766	46,789
87 Texas Tech University	27,222	28,095	29,374	29,987	31,744	35,645	38,246	46,743
88 University of Rochester	30,912	31,622	32,642	31,981	36,834	43,844	44,274	46,742
89 California Inst of Tech	11,551	15,444	17,293	14,531	13,663	7,318	16,913	46,489
90 University of Louisville	10,572	11,201	13,053	16,349	19,913	24,080	41,515	46,349
Total, 1st 90 institutions	6,079,356	6,322,681	6,691,459	6,974,597	7,655,564	8,198,422	8,884,795	9,822,458
91 Utah State University	30,409	32,957	34,037	37,945	41,698	39,325	40,931	45,783
92 Case Western Reserve U	32,824	35,970	33,897	33,534	40,833	44,056	42,154	42,471
93 Vanderbilt University	12,498	17,666	19,039	21,319	23,854	28,889	32,788	41,940
94 Tufts University	21,894e	24,077	26,612	25,848	28,147	30,963	38,036	41,106
95 UT Houston Hlth Sci Ctr	20,122	19,611	19,902	21,347	28,433	31,547	34,019	39,922
96 University of Miami	29,403	29,912	31,625	33,340	34,372	35,480	37,725	39,162
97 U TX Hlth Sci Ctr San Ant	26,772	31,864	32,903	31,825	32,541	30,403	30,900	38,573
98 University of Idaho	28,778	32,752	34,290	39,717	40,166i	40,615	38,268	38,333
99 West Virginia University	23,179	23,982	22,814	24,044	33,869	37,377	37,128	38,117
100 Yeshiva University	17,865	22,163	22,607e	18,034	18,883	19,000	22,091	37,987
Total, 1st 100 institutions	6,323,100	6,593,635	6,969,185	7,261,550	7,978,360	8,536,077	9,238,835	10,225,852

See explanatory information and SOURCE at end of table.

**Table B-34. Non-Federal R&D expenditures at universities and colleges,
ranked by fiscal year 2000 non-Federal R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
101 Tulane University	38,694	41,531	39,394	33,940	36,719	34,934	36,545	37,705
102 U CA Santa Barbara	14,718	14,283	15,294	17,884	26,234	27,354	30,535	37,400
103 University of Delaware	26,457	24,484	25,809	24,645	33,064	36,208	38,893	36,995
104 U TX Med Br at Galveston	37,443	39,998	39,365	35,436	35,677	37,900	38,519	36,539
105 Columbia U in City of NY	22,014	33,316	38,496	40,751	32,157	37,284	39,429	36,530
106 Virginia Commonwealth U	28,320	28,674	29,835	33,564	33,966	32,371	31,610	36,083
107 Rush University	21,252	24,905	26,198	26,292	25,587	26,833	29,838	35,616
108 Montana St U Bozeman	18,815	20,411	30,765	32,430	29,733	28,310	29,244	34,760
109 North Dakota State U	26,215	26,100	28,993	31,978	28,765	30,220	32,388	34,600
110 Georgetown University	25,322	27,669	28,093	30,878	34,916	31,810	27,454	34,375
Total, 1st 110 institutions	6,582,350	6,875,006	7,271,427	7,569,348	8,295,178	8,859,301	9,573,290	10,586,455
111 U of Central Florida	21,395	17,050	17,070	2,774	25,231	22,028	26,418	33,845
112 University of New Mexico	33,870	38,535	38,457	39,768	39,174	41,545	30,874	33,538
113 U MA Worcester	26,782	26,867	25,471	23,143	27,996	29,184	27,524	33,375
114 U of New Hampshire	15,920	18,675	21,476	22,388	21,758	26,446	27,027	33,187
115 San Diego St University	15,631	17,041	18,851	26,020	20,349	22,194	25,855	32,200
116 U of Nebraska Med Ctr	21,538	21,741	24,912	28,583	31,375	34,790	37,038	31,669
117 Brown University	18,301	18,282	18,837	25,482	27,747	29,565	31,054	31,533
118 NJ Inst of Technology	15,506	17,411	15,831	18,549	17,441	19,855	19,855	30,514
119 U of Maine	15,920	18,007	16,112	18,473	18,078	20,078	22,289	30,409
120 Medical Col of Georgia	17,222	18,899	20,362	24,633	26,821	26,679	27,112	30,386
Total, 1st 120 institutions	6,784,435	7,087,514	7,488,806	7,799,161	8,551,148	9,131,665	9,848,336	10,907,111
121 U CA Santa Cruz	16,065	18,655	18,251	19,335	25,423	26,652	27,818	30,253
122 U of Nevada Reno	21,467	23,377	25,406	27,006	31,890	25,093	23,352	29,981
123 University of Chicago	15,947	19,372	21,674	21,570	28,848	25,653	27,085	29,806
124 University of Houston	20,688	20,301	22,360	23,730	24,221	20,279	22,927	27,537
125 University of Wyoming	17,981	23,349	25,097	25,562	32,750	30,694	28,088	26,538
126 S Illinois U Carbondale	18,939	20,566	19,531	19,742	21,411	22,689	25,509	26,224
127 Georgia State University	6,307	10,329	11,590	12,296	19,525	19,869	22,213	24,510
128 Med U of South Carolina	21,072	17,742	21,078	13,789	19,321	21,467	24,822	23,811
129 University of Vermont	18,309	18,080	21,133	22,138	25,484	26,372	27,964	23,530
130 U PR Mayaguez Campus	14,669	13,598	22,345	24,934	27,805	29,278	31,864	22,846
Total, 1st 130 institutions	6,955,879	7,272,883	7,697,271	8,009,263	8,807,826	9,379,711	10,109,978	11,172,147
131 New Mexico State Univ	21,153	20,654	24,245	22,941	23,859	20,783	23,002	22,622
132 Dartmouth College	15,828	16,083	11,466	13,263	18,465	19,911	22,781	22,505
133 SUNY Col Env Sci Frstry	18,679	18,488	18,718 <i>i</i>	18,948	17,850	19,321	21,511	22,331
134 Oregon Health Sciences U	17,947	20,246	25,297	28,995	29,682	27,228 <i>i</i>	24,774 <i>i</i>	22,321
135 Thomas Jefferson U	12,813	13,717	16,370	17,679	20,137	17,732	22,041	22,178
136 Wake Forest University	15,785	15,859	17,669	19,486	21,003	20,188	22,534	21,255
137 Brandeis University	14,388	13,250	13,710	13,527	14,912	16,491	18,882	21,214
138 U MD Ctr for Environ Sci	13,642	14,365	15,148	15,450	15,137	16,598	18,700	20,800
139 SUNY at Albany	10,542	19,746	14,303	17,852	16,225	16,674	18,036	20,733
140 U of LA Lafayette	10,189	9,101	11,109	10,493	17,682	18,934	21,305	20,528
Total, 1st 140 institutions	7,106,845	7,434,392	7,865,306	8,187,897	9,002,778	9,573,571	10,323,544	11,388,634
141 Boston University	19,565	17,953	20,236	22,320	22,870	25,626	17,712	20,299
142 Col of William & Mary	11,458	10,017	8,866	12,163	13,140	14,869	19,430	20,268
143 George Washington U	13,479	14,050	15,457	18,773	20,976	29,409	16,813	19,673
144 CA St U Long Beach	777 <i>i</i>	797 <i>i</i>	817 <i>i</i>	830	830e	10,092 <i>i</i>	19,354	19,587
145 U of Arkansas Medical Sci	4,722	9,352	12,272	16,558	18,087	17,630	17,674	19,112
146 U MD Biotechnology Inst	--	8,760	11,025	15,404	20,398	20,072	17,261	18,789
147 U Mississippi, All Camp	8,817	9,164	9,396	10,644	10,535	11,616	7,346	16,820
148 Wright State University	9,710	9,764	9,042	7,879	7,290	8,844	10,766	16,549
149 Univ of Memphis, The	8,236	9,278	10,077	13,475	15,858	16,637	17,916	16,204
150 U of Missouri Rolla	11,897	13,234	15,386	12,693	12,815	13,806	17,162	16,164
Total, 1st 150 institutions	7,195,506	7,536,761	7,977,880	8,318,636	9,145,577	9,742,172	10,484,978	11,572,099

See explanatory information and SOURCE at end of table.

**Table B-34. Non-Federal R&D expenditures at universities and colleges,
ranked by fiscal year 2000 non-Federal R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
151 Medical Col of Wisconsin	17,428	18,145	13,071	12,838	12,265	12,190	14,359	15,547
152 U of Alabama Huntsville	9,170	9,899	11,319	12,035	11,086	13,174	15,037	15,335
153 Rensselaer Polytech Inst	22,026	15,101	12,997	13,169	16,018	16,786	16,231	15,207
154 NM Inst Mining & Tech	18,667	13,363	11,137	13,375	11,478	13,832	15,342	14,984
155 Woods Hole Oceanogr Inst	7,973	7,126	7,476	11,195	11,021	10,246	12,188	14,511
156 Florida International U	2,154	2,584	3,345	3,441	3,531	3,637	9,304	14,353
157 MCP Hahnemann University ..	16,088	18,894	17,332	21,067	37,686	34,882	10,235	14,291
158 Temple University	27,138	29,168	26,439	27,813	28,126	34,231	24,206	14,253
159 Unif Svcs U of Hlth Sci	8,527	9,210	13,754	12,230	9,594	12,762	13,202	12,964
160 Lehigh University	14,831	13,825	13,707	12,371	11,569	13,096	14,741	12,780
Total, 1st 160 institutions	7,339,508	7,674,076	8,108,457	8,458,170	9,297,951	9,907,008	10,629,823	11,716,324
161 University of Akron	13,229	12,767	11,358	10,714	12,853	12,284	9,139	12,414
162 University of Alabama, The	14,566	10,478	11,243	9,568	10,553	9,026	11,308	12,361
163 SUNY at Binghamton	8,755	10,703	11,447	12,839	13,092	14,549	12,237	12,342
164 U of Missouri Kansas City	6,009	6,662	7,221	7,510	6,354	6,676	7,125	12,157
165 Ohio University	10,284	10,589	12,126	10,283	11,218	11,146	10,893	12,072
166 U WI-Milwaukee	10,790	11,203	11,935	11,653	11,839	11,871	12,135	11,585
167 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	--	11,415
168 Univ of Montana, The	7,866	8,233	8,732	9,830	9,597	8,385	9,745	11,212
169 Eastern VA Med School	6,065	7,711	7,999	7,527	8,491	12,223	12,742	11,185
170 Boston College	2,580	2,786	3,308	3,367	3,539	4,996	7,234	11,094
Total, 1st 170 institutions	7,419,652	7,755,208	8,193,826	8,541,461	9,385,487	9,998,164	10,722,381	11,834,161
171 Wichita State University	4,092	5,731	7,140	7,708	9,195	10,471	11,295	10,985
172 Drexel University	8,979	9,880	9,945	7,709	8,722	8,674	9,483	10,584
173 Michigan Tech University	8,919	10,802	9,991	11,279	11,199	12,584	11,967	10,554
174 U of Nevada Las Vegas	8,788	5,943	6,804	5,751	6,407	7,199	9,922	10,400
175 Creighton University	5,147	4,992	6,562	6,595	7,998	10,915	11,086	10,300
176 Old Dominion University	7,047	7,023	6,471	8,311	7,847	7,804	9,324	10,150
177 Syracuse University	15,625	19,341	14,598	15,961	10,862	8,122	9,590	9,838
178 Colorado School of Mines	6,594	5,719	7,738 i	9,757	9,891	11,987	11,011	9,800
179 CA St U Fresno	3,185	4,239 i	5,293 i	6,347 i	7,403	8,780	9,701	9,775
180 Western Michigan U	6,247	6,446	6,280	6,270	6,417	7,509	9,562	9,646
Total, 1st 180 institutions	7,494,275	7,835,324	8,274,648	8,627,149	9,471,428	10,092,209	10,825,322	11,936,193
181 U of Rhode Island	13,333	13,606	9,176 i	4,746	4,789	4,632	8,245	9,597
182 U MA Lowell	8,333	7,874	7,408	8,258	7,135	7,113	9,059	9,429
183 Loyola U of Chicago	11,002	13,243	12,889 i	12,534	16,223	16,556	11,413	9,339
184 South Dakota State U	9,017	8,372	7,826	9,425	10,021	9,819	9,513	9,336
185 San Jose State University	9,180	9,180 i	9,180 i	9,180 i	9,180 e	9,180 e	9,180 e	9,180 e
186 C R Drew U of Med & Sci	369	1,673	2,000	1,098	1,153 e	1,153 e	2,272	9,076
187 SUNY Hlth Sci Ctr Brklyn	9,729	11,078	12,407	11,569 i	10,731	9,199	7,787	8,766
188 U MA Boston	7,612	8,580	6,692	8,192	8,119	8,331	8,181	8,680
189 U TX at Dallas	5,340	7,268	7,623 i	7,979	7,842	7,096	8,328	8,635
190 SUNY Upstate Med U	5,215	5,196	6,323	7,329	7,726	7,602	7,210	8,634
Total, 1st 190 institutions	7,573,405	7,921,394	8,356,172	8,707,459	9,554,347	10,172,890	10,906,510	12,026,865

See explanatory information and SOURCE at end of table.

**Table B-34. Non-Federal R&D expenditures at universities and colleges,
ranked by fiscal year 2000 non-Federal R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
191 Northeastern University	3,178	3,067	2,737	3,274	3,501	4,931	7,433	8,424
192 Miami University (OH)	2,576	3,942	4,823	6,214	6,768	4,051	7,662	8,000
193 University of Dayton	6,719	7,774	8,242	8,775	9,241	8,671	6,182	7,628
194 Tennessee Tech U	8,212	8,149	9,002	7,938	7,848	8,596	7,982	7,426
195 University of Toledo	4,714	4,538	4,249	4,674e	5,792	6,146	6,137	7,382
196 Polytechnic University	3,030	4,997	4,034	4,635	4,967	3,530	4,455	7,300
197 Florida Atlantic U	5,676	4,439	4,133	4,076	2,868	4,683	6,115	7,176
198 University of Notre Dame	7,330	6,475	5,908	5,670	4,943	5,820	6,869	7,162
199 Inst of Paper Sci & Tech	7,033	7,366	7,299	9,489 i	11,678e	11,678e	7,135e	7,135e
200 Stevens Inst of Tech	3,452	5,816	5,089	6,027	6,005	6,277	6,710	7,094
Total, 1st 200 institutions	7,625,325	7,977,957	8,411,688	8,768,231	9,617,958	10,237,273	10,973,190	12,101,592
Total, all other sampled institutions	368,948	398,576	425,337	435,325	435,357	464,725	486,108	467,306

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-35. R&D expenditures at universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institutional funds	Other
Total, all institutions	30,062,371	17,493,473	2,204,263	2,178,252	5,924,491	2,261,892
1 Johns Hopkins U ¹	901,156	793,266	2,391	15,751	46,940	42,808
2 U WI-Madison	554,361	278,629	40,189	16,127	161,132	58,284
3 University of Michigan	551,556	364,033	4,561	35,515	108,532	38,915
4 U CA Los Angeles	530,826	274,162	17,864	33,427	118,456	86,917
5 U of Washington	529,342	389,622	9,984	57,405	63,123	9,208
6 U CA San Diego	518,559	326,037	23,691	34,541	87,632	46,658
7 U CA Berkeley	518,514	208,338	65,354	27,851	168,025	48,946
8 Stanford University	454,780	367,127	5,710	41,269	19,286	21,388
9 U CA San Francisco	443,013	248,878	22,435	34,964	71,199	65,537
10 U of Pennsylvania	430,389	312,434	1,830	32,632	40,981	42,512
Total, 1st 10 institutions	5,432,496	3,562,526	194,009	329,482	885,306	461,173
11 Pennsylvania State U	427,575	226,074	18,739	64,393	112,161	6,208
12 MA Institute of Tech	426,299	306,668	197	83,082	9,896	26,456
13 University of Minnesota	411,380	229,958	52,342	26,392	70,330	32,358
14 Cornell University	410,393	229,872	40,177	12,697	85,090	42,557
15 Texas A&M University	397,268	149,639	108,503	31,084	100,119	7,923
16 U of IL Urbana-Champaign	373,024	193,490	45,850	12,693	104,241	16,750
17 U CA Davis	364,789	141,740	31,063	17,891	144,073	30,022
18 Washington University	362,216	254,148	6,956	22,691	40,160	38,261
19 Ohio State University	361,399	132,219	61,978	57,075	79,583	30,544
20 Duke University	356,625	204,180	6,083	109,791	16,752	19,819
Total, 1st 20 institutions	9,323,464	5,630,514	565,897	767,271	1,647,711	712,071
21 University of Colorado	353,528	300,394	2,370	9,291	27,928 <i>i</i>	13,545 <i>i</i>
22 University of Arizona	345,090	187,161	8,971	22,412	112,290	14,256
23 Harvard University	341,810	281,699	1,295	12,189	0	46,627
24 Baylor Col of Medicine	334,175	193,249	2,714	17,578	49,443	71,191
25 Columbia U in City of NY	319,693	283,163	1,424	3,362	10,522	21,222
26 University of Florida	313,692	120,374	67,505	34,879	81,678	9,256
27 Georgia Institute of Tech	304,511	126,164	14,932	64,508	98,907	0
28 U of Southern California	300,445	210,872	10,991	25,298	53,284	0
29 Yale University	296,706	232,019	902	14,355	18,304	31,126
30 University of Pittsburgh	294,809	228,155	2,593	14,676	28,037	21,348
Total, 1st 30 institutions	12,527,923	7,793,764	679,594	985,819	2,128,104	940,642
31 NC State University	277,946	77,328	88,120	32,804	73,744	5,950
32 U TX at Austin	272,811	178,889	19,201	24,740	37,883	12,098
33 U of NC Chapel Hill	269,072	194,794	15,247	6,835	52,196	0
34 University of Georgia	258,476	62,678	50,653	12,276	131,109	1,760
35 U MD at College Park	252,429	136,605	48,902	1,028	53,919	11,975
36 Louisiana State U System	251,233	89,007	68,589	15,108	62,279	16,250
37 Northwestern University	245,774	150,238	3,565	12,860	56,937	22,174
38 U of Iowa	236,944	140,764	6,163	17,262	54,967	17,788
39 Purdue University	234,536	92,010	31,155	29,997	81,150	224
40 U of Alabama Birmingham	233,461	175,309	539	7,752	17,902	31,959
Total, 1st 40 institutions	15,060,605	9,091,386	1,011,728	1,146,481	2,750,190	1,060,820
41 Indiana University	227,737	107,577	3,002	5,384	91,578	20,196
42 Michigan State University	227,734	97,112	41,739	11,230	70,185	7,468
43 Rutgers the State U NJ	225,268	79,711	25,762	8,843	86,261	24,691
44 U of MD Baltimore	224,346	91,212	23,731	29,892	35,632	43,879
45 California Inst of Tech	222,666	176,177	2,697	29,619	14,173	0
46 Emory University	206,070	144,914	4,061	7,513	18,901	30,681
47 University of Kentucky	202,392	73,858	19,276	11,213	85,948	12,097
48 University of Rochester	197,335	150,593	10,300	17,595	6,944	11,903
49 U of IL Chicago	195,839	101,943	6,916	11,010	60,691	15,279
50 Case Western Reserve U	193,057	150,586	3,622	5,890	16,605	16,354
Total, 1st 50 institutions	17,183,049	10,265,069	1,152,834	1,284,670	3,237,108	1,243,368

See explanatory information and SOURCE at end of table.

**Table B-35. R&D expenditures at universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institutional funds	Other
51 VA Polytech Inst & St U	192,672	71,127	52,346	14,869	46,654	7,676
52 U TX SW Med Ctr at Dallas	189,216	109,165	11,320	14,861	5,317	48,553
53 SUNY at Buffalo	187,692	96,410	6,692	5,590	48,502	30,498
54 University of Utah	187,661	124,344	2,821	7,940	24,226	28,330
55 New York University	182,205	117,163	1,729	7,767	24,488	31,058
56 U TX MD Anderson Cnrc Ctr ..	182,196	81,872	0	20,271	50,667	29,386
57 Iowa State University	175,558	59,976	49,627	15,075	47,272	3,608
58 University of Virginia	174,522	119,243	6,272	17,266	16,498	15,243
59 University of Cincinnati	172,085	110,475	3,355	5,166	38,254	14,835
60 Vanderbilt University	171,926	129,986	27	4,063	20,681	17,169
Total, 1st 60 institutions	18,998,782	11,284,830	1,287,023	1,397,538	3,559,667	1,469,724
61 University of Chicago	170,678	140,872	3,278	1,462	10,791	14,275
62 U of Tennessee System	163,690	72,059	30,922	12,740	30,537	17,432
63 SUNY at Stony Brook	163,307	96,641	4,355	7,567	48,191	6,553
64 Univ of Hawaii at Manoa	161,300	95,419	35,474	11,158	19,249	0
65 University of Connecticut	161,084	66,144	14,106	13,540	54,002	13,292
66 U of Missouri Columbia	158,861	65,420	17,361	4,007	62,769	9,304
67 U CA Irvine	158,437	88,274	5,259	18,615	27,168	19,121
68 Wayne State University	156,814	64,320	12,366	10,932	49,825	19,371
69 Boston University	154,029	133,730	1,281	8,574	0	10,444
70 Colorado State University	152,279	101,429	19,695	6,519	24,205	431
Total, 1st 70 institutions	20,599,261	12,209,138	1,431,120	1,492,652	3,886,404	1,579,947
71 University of Oklahoma	150,902	60,542	15,418	9,499	54,473	10,970
72 Mt Sinai Sch Med	149,846	98,188	2,989	12,141	17,690	18,838
73 University of Kansas	148,670	68,950	5,486	15,712	46,754	11,768
74 University of Miami	145,795	106,633	1,446	17,028	6,178	14,510
75 U of South Florida	145,397	50,557	6,978	10,873	64,713	12,276
76 U Med & Dent of NJ	140,951	75,318	7,230	10,001	34,912	13,490
77 Oregon State University	140,751	80,398	31,434	141	23,904	4,874
78 Yeshiva University	139,618	101,631	0	0	37,987	0
79 Carnegie Mellon U	137,980	91,191	3,223	21,136	0	22,430
80 U of Nebraska at Lincoln	136,023	37,831	4,640	5,991	80,439	7,122
Total, 1st 80 institutions	22,035,194	12,980,377	1,509,964	1,595,174	4,253,454	1,696,225
81 Princeton University	134,875	74,681	2,574	6,881	34,704	16,035
82 University of New Mexico	133,980	100,442	1,904	1,853	25,321	4,460
83 Georgetown University	133,211	98,836	576	9,795	13,950	10,054
84 Mississippi State U	132,503	53,808	30,317	7,955	40,423	0
85 Oregon Health Sciences U	131,486	109,165	1,956	12,430	0	7,935
86 Rockefeller U, The	124,138	45,211	4,932	2,775	42,054	29,166
87 UT Houston Hlth Sci Ctr	119,587	79,665	2,803	13,029	7,995	16,095
88 U CA Santa Barbara	118,154	80,754	2,375	5,499	18,973	10,553
89 Clemson University	114,903	31,304	24,363	9,768	44,347	5,121
90 Arizona State University	108,117	49,935	4,398	4,700	45,051	4,033
Total, 1st 90 institutions	23,286,148	13,704,178	1,586,162	1,669,859	4,526,272	1,799,677
91 Tufts University	105,783	64,677	1,475	8,118	20,753	10,760
92 Florida State University	105,095	56,830	4,172	693	40,170	3,230
93 Washington State U	104,796	48,441	4,284	4,579	36,280	11,212
94 U of South Carolina	104,398	51,872	4,895	2,822	41,294	3,515
95 U TX Hlth Sci Ctr San Ant	103,824	65,251	9,671	10,707	11,305	6,890
96 Utah State University	103,161	57,378	16,241	7,885	17,370	4,287
97 U of Alaska Fairbanks	102,500	46,605	3,267	19,686	32,937	5
98 U TX Med Br at Galveston	97,896	61,357	8,588	6,146	11,236	10,569
99 U MA Worcester	97,587	64,212	23,474	3,467	0	6,434
100 U MA Amherst	97,052	44,697	6,961	5,535	31,879	7,980
Total, 1st 100 institutions	24,308,240	14,265,498	1,669,190	1,739,497	4,769,496	1,864,559

See explanatory information and SOURCE at end of table.

**Table B-35. R&D expenditures at universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Federal Govt.	State & local govts.	Industry	Institutional funds	Other
101 Auburn University	92,612	31,515	221	3,917	52,734	4,225
102 Kansas State University	91,790	31,185	36,300	4,057	17,294	2,954
103 Tulane University	89,785	52,080	2,371	10,340	17,703	7,291
104 Thomas Jefferson U	89,626	67,448	3,229	12,324	1,563	5,062
105 Oklahoma State University	88,285	24,770	25,770	4,076	33,002	667
106 Virginia Commonwealth U	88,220	52,137	2,056	7,495	21,688	4,844
107 Wake Forest University	86,840	65,585	776	15,125	1,172	4,182
108 U CA Riverside	83,580	21,085	3,569	3,345	46,451	9,130
109 SUNY at Albany	82,792	62,059	7,521	622	5,944	6,646
110 Woods Hole Oceanogr Inst	81,547	67,036	244	142	4,104	10,021
Total, 1st 110 institutions	25,183,317	14,740,398	1,751,247	1,800,940	4,971,151	1,919,581
111 Brown University	81,476	49,943	100	1,530	26,742	3,161
112 New Mexico State Univ	79,695	57,073	7,883	3,466	10,232	1,041
113 Dartmouth College	78,874	56,369	2,452	4,274	9,027	6,752
114 University of Delaware	74,711	37,716	4,032	3,757	19,430	9,776
115 U of New Hampshire	72,108	38,921	7,295	4,923	13,897	7,072
116 U of Arkansas Main	70,817	20,778	32,860	4,746	9,155	3,278
117 Medical Col of Wisconsin	70,581	55,034	1	1,931	6,905	6,710
118 George Washington U	69,300	49,627	2,649	4,220	4	12,800
119 Texas Tech University	68,224	21,481	21,164	5,946	15,621	4,012
120 Rush University	68,189	32,573	508	8,762	22,700	3,646
Total, 1st 120 institutions	25,917,292	15,159,913	1,830,191	1,844,495	5,104,864	1,977,829
121 West Virginia University	66,130	28,013	2,620	7,185	23,701	4,611
122 Montana St U Bozeman	65,324	30,564	15,772	8,523	10,465	0
123 Med U of South Carolina	65,243	41,432	2,245	2,880	15,300	3,386
124 University of Louisville	64,062	17,713	1,564	6,532	33,447	4,806
125 University of Vermont	63,391	39,861	3,262	5,713	10,239	4,316
126 University of Idaho	61,347	23,014	16,971	2,764	15,148	3,450
127 U of Nevada Reno	56,248	26,267	1,559	2,557	23,734	2,131
128 U CA Santa Cruz	56,212	25,959	1,232	1,531	20,806	6,684
129 San Diego St University	55,002	22,802	7,290	1,811	17,811	5,288
130 U of Maine	54,821	24,412	5,872	2,899	19,674	1,964
Total, 1st 130 institutions	26,525,072	15,439,950	1,888,578	1,886,890	5,295,189	2,014,465
131 Temple University	52,466	38,213	658	188	6,657	6,750
132 U of Nebraska Med Ctr	51,547	19,878	1,568	5,486	15,360	9,255
133 North Dakota State U	50,063	15,463	2,391	2,044	28,159	2,006
134 U of Arkansas Medical Sci	49,074	29,962	1,012	3,321	10,979	3,800
135 University of Houston	48,902	21,365	13,521	1,689	7,837	4,490
136 U of Rhode Island	48,135	38,538	4,464	1,194	3,501	438
137 NJ Inst of Technology	47,895	17,381	8,187	1,344	1,603	19,380
138 Brandeis University	47,658	26,444	88	0	5,697	15,429
139 U of Central Florida	47,646	13,801	6,734	5,833	21,278	0
140 Medical Col of Georgia	45,596	15,210	736	3,609	23,988	2,053
Total, 1st 140 institutions	27,014,054	15,676,205	1,927,937	1,911,598	5,420,248	2,078,066
141 U Mississippi, All Camp	44,927	28,107	7,488	2,034	4,233	3,065
142 University of Wyoming	43,094	16,556	1,470	2,941	20,103	2,024
143 Rice University	41,840	35,144	1,860	2,858	0	1,978
144 MCP Hahnemann University	41,670	27,379	7,990	2,967	157	3,177
145 U of Alabama Huntsville	41,274	25,939	1,528	4,532	9,275	0
146 Rensselaer Polytech Inst	40,762	25,555	5,586	6,581	1,622	1,418
147 Syracuse University	39,468	29,630	1,830	1,210	1,703	5,095
148 University of Dayton	39,345	31,717	520	5,598	1,350	160
149 Naval Postgrad School	37,502 <i>i</i>	36,476 <i>i</i>	234 <i>i</i>	316 <i>i</i>	0 <i>i</i>	476 <i>i</i>
150 Georgia State University	36,600	12,090	5,666	784	14,659	3,401
Total, 1st 150 institutions	27,420,536	15,944,798	1,962,109	1,941,419	5,473,350	2,098,860

See explanatory information and SOURCE at end of table.

**Table B-35. R&D expenditures at universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Federal Govt.	State & local govt.	Industry	Institutional funds	Other
151 S Illinois U Carbondale	36,354	10,130	8,047	2,355	12,231	3,591
152 University of Oregon	35,934	30,793	410	237	2,852	1,642
153 Northeastern University	35,340	26,916	162	3,567	4,143	552
154 U PR Mayaguez Campus	34,683	11,837	14,088	3,971	4,451	336
155 Florida International U	34,649	20,296	8,600	1,843	3,477	433
156 University of Notre Dame	34,524	27,362	102	2,279	4,781	0
157 Col of William & Mary	33,299	13,031	3,113	638	14,467	2,050
158 U of LA Lafayette	32,692	12,164	2,360	0	9,458	8,710
159 CA St U Long Beach	32,551	12,964	13,457	673	3,604	1,853
160 University of Alabama, The	31,847	19,486	3,308	1,941	7,112	0
Total, 1st 160 institutions	27,762,409	16,129,777	2,015,756	1,958,923	5,539,926	2,118,027
161 SUNY Hlth Sci Ctr Brklyn	31,626	22,860	229	1,787	4,094	2,656
162 U MD Ctr for Environ Sci	31,605	10,805	3,873	58	14,367	2,502
163 C R Drew U of Med & Sci	31,045	21,969	7,973	1,103	0	0
164 Saint Louis University	31,002	26,453	263	3,018	580	688
165 Loyola U of Chicago	30,034	20,695	330	1,484	4,565	2,960
166 U MD Biotechnology Inst	29,946	11,157	1,483	915	14,132	2,259
167 Univ of Montana, The	29,590	18,378	991	1,474	5,193	3,554
168 Wright State University	29,092	12,543	3,648	2,968	9,478	455
169 Boston College	27,767	16,673	1,706	1,487	4,936	2,965
170 Univ of Memphis, The	27,381	11,177	2,937	490	11,633	1,144
Total, 1st 170 institutions	28,061,497	16,302,487	2,039,189	1,973,707	5,608,904	2,137,210
171 Howard University	27,254	25,292	76	1,874	0	12
172 Michigan Tech University	27,204	16,650	870	3,834	5,046	804
173 George Mason University	26,793	20,669	1,092	630	842	3,560
174 SUNY Col Env Sci Frstry	26,663	4,332	2,665	1,914	16,889	863
175 U MD Baltimore County	26,044	20,244	1,156	2,159	2,278	207
176 U of Missouri Rolla	25,968	9,804	322	2,543	10,892	2,407
177 Desert Research Institute	25,877	19,923	1,890	844	807	2,413
178 TX A&M U Sys Hlth Sci Ctr	25,736	14,321	6,290	2,704	2,421	0
179 Lehigh University	25,506	12,726	3,819	5,636	3,041	284
180 Old Dominion University	25,058	14,908	4,313	3,533	2,304	0
Total, 1st 180 institutions	28,323,600	16,461,356	2,061,682	1,999,378	5,653,424	2,147,760
181 Drexel University	24,876	14,292	1,163	3,137	6,284	0
182 Loma Linda University	24,369	18,811	0	4,181	1,263	114
183 U of Nevada Las Vegas	24,215	13,815	3,583	2,131	4,686	0
184 Unif Svcs U of Hlth Sci	23,987	11,023	0	0	12,964	0
185 Ohio University	23,767	11,695	1,841	1,591	7,375	1,265
186 NM Inst Mining & Tech	23,636	8,652	2,133	6,373	6,187	291
187 New York Medical College	23,348	17,975	172	3,294	0	1,907
188 Eastern VA Med School	23,299	12,114	31	6,044	110	5,000
189 Colorado School of Mines	21,795	11,995	1,550	7,870	380	0
190 Florida A&M University	21,612	16,278	5,334	0	0	0
Total, 1st 190 institutions	28,558,504	16,598,006	2,077,489	2,033,999	5,692,673	2,156,337

See explanatory information and SOURCE at end of table.

**Table B-35. R&D expenditures at universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

Page 5 of 5

Institution and ranking	Total	Federal Govt.	State & local govt.s.	Industry	Institutional funds	Other
191 U PR Med Sci Campus	21,373	16,657	19	954	3,565	178
192 San Jose State University	21,005e	11,825e	2,537e	4,324e	1,655e	664e
193 U TX at El Paso	20,877	16,416	2,881	941	639	0
194 U WI-Milwaukee	20,010	8,425	3,358	568	6,394	1,265
195 U of Missouri Kansas City	19,647	7,490	75	660	10,376	1,046
196 Florida Atlantic U	19,535	12,359	789	6,387	0	0
197 University of Akron	19,495	7,081	1,153	3,090	6,356	1,815
198 U MA Lowell	19,334	9,905	599	7,204	1,626	0
199 OR Grad Inst Sci & Tech	18,856	13,743	865	1,315	2,082	851
200 SUNY at Binghamton	18,661	6,319	2,746	3,327	3,961	2,308
Total, 1st 200 institutions	28,757,297	16,708,226	2,092,511	2,062,769	5,729,327	2,164,464
Total, all other sampled institutions	1,305,074	785,247	111,752	115,483	195,164	97,428

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-36. R&D expenditures at public universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

Page 1 of 4

Institution and ranking	Total	Federal Govt.	State & local govt.s.	Industry	Institutional funds	Other
Total, all institutions	20,517,436	10,637,880	2,009,336	1,446,530	4,992,452	1,431,238
1 U WI-Madison	554,361	278,629	40,189	16,127	161,132	58,284
2 University of Michigan	551,556	364,033	4,561	35,515	108,532	38,915
3 U CA Los Angeles	530,826	274,162	17,864	33,427	118,456	86,917
4 U of Washington	529,342	389,622	9,984	57,405	63,123	9,208
5 U CA San Diego	518,559	326,037	23,691	34,541	87,632	46,658
6 U CA Berkeley	518,514	208,338	65,354	27,851	168,025	48,946
7 U CA San Francisco	443,013	248,878	22,435	34,964	71,199	65,537
8 Pennsylvania State U	427,575	226,074	18,739	64,393	112,161	6,208
9 University of Minnesota	411,380	229,958	52,342	26,392	70,330	32,358
10 Texas A&M University	397,268	149,639	108,503	31,084	100,119	7,923
Total, 1st 10 institutions	4,882,394	2,695,370	363,662	361,699	1,060,709	400,954
11 U of IL Urbana-Champaign	373,024	193,490	45,850	12,693	104,241	16,750
12 U CA Davis	364,789	141,740	31,063	17,891	144,073	30,022
13 Ohio State University	361,399	132,219	61,978	57,075	79,583	30,544
14 University of Colorado	353,528	300,394	2,370	9,291	27,928 <i>i</i>	13,545 <i>i</i>
15 University of Arizona	345,090	187,161	8,971	22,412	112,290	14,256
16 University of Florida	313,692	120,374	67,505	34,879	81,678	9,256
17 Georgia Institute of Tech	304,511	126,164	14,932	64,508	98,907	0
18 University of Pittsburgh	294,809	228,155	2,593	14,676	28,037	21,348
19 NC State University	277,946	77,328	88,120	32,804	73,744	5,950
20 U TX at Austin	272,811	178,889	19,201	24,740	37,883	12,098
Total, 1st 20 institutions	8,143,993	4,381,284	706,245	652,668	1,849,073	554,723
21 U of NC Chapel Hill	269,072	194,794	15,247	6,835	52,196	0
22 University of Georgia	258,476	62,678	50,653	12,276	131,109	1,760
23 U MD at College Park	252,429	136,605	48,902	1,028	53,919	11,975
24 Louisiana State U System	251,233	89,007	68,589	15,108	62,279	16,250
25 U of Iowa	236,944	140,764	6,163	17,262	54,967	17,788
26 Purdue University	234,536	92,010	31,155	29,997	81,150	224
27 U of Alabama Birmingham	233,461	175,309	539	7,752	17,902	31,959
28 Indiana University	227,737	107,577	3,002	5,384	91,578	20,196
29 Michigan State University	227,734	97,112	41,739	11,230	70,185	7,468
30 Rutgers the State U NJ	225,268	79,711	25,762	8,843	86,261	24,691
Total, 1st 30 institutions	10,560,883	5,556,851	997,996	768,383	2,550,619	687,034
31 U of MD Baltimore	224,346	91,212	23,731	29,892	35,632	43,879
32 University of Kentucky	202,392	73,858	19,276	11,213	85,948	12,097
33 U of IL Chicago	195,839	101,943	6,916	11,010	60,691	15,279
34 VA Polytech Inst & St U	192,672	71,127	52,346	14,869	46,654	7,676
35 U TX SW Med Ctr at Dallas	189,216	109,165	11,320	14,861	5,317	48,553
36 SUNY at Buffalo	187,692	96,410	6,692	5,590	48,502	30,498
37 University of Utah	187,661	124,344	2,821	7,940	24,226	28,330
38 U TX MD Anderson Cnrc Ctr	182,196	81,872	0	20,271	50,667	29,386
39 Iowa State University	175,558	59,976	49,627	15,075	47,272	3,608
40 University of Virginia	174,522	119,243	6,272	17,266	16,498	15,243
Total, 1st 40 institutions	12,472,977	6,486,001	1,176,997	916,370	2,972,026	921,583
41 University of Cincinnati	172,085	110,475	3,355	5,166	38,254	14,835
42 U of Tennessee System	163,690	72,059	30,922	12,740	30,537	17,432
43 SUNY at Stony Brook	163,307	96,641	4,355	7,567	48,191	6,553
44 Univ of Hawaii at Manoa	161,300	95,419	35,474	11,158	19,249	0
45 University of Connecticut	161,084	66,144	14,106	13,540	54,002	13,292
46 U of Missouri Columbia	158,861	65,420	17,361	4,007	62,769	9,304
47 U CA Irvine	158,437	88,274	5,259	18,615	27,168	19,121
48 Wayne State University	156,814	64,320	12,366	10,932	49,825	19,371
49 Colorado State University	152,279	101,429	19,695	6,519	24,205	431
50 University of Oklahoma	150,902	60,542	15,418	9,499	54,473	10,970
Total, 1st 50 institutions	14,071,736	7,306,724	1,335,308	1,016,113	3,380,699	1,032,892

See explanatory information and SOURCE at end of table.

**Table B-36. R&D expenditures at public universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

Page 2 of 4

Institution and ranking	Total	Federal Govt.	State & local govt.	Industry	Institutional funds	Other
51 University of Kansas	148,670	68,950	5,486	15,712	46,754	11,768
52 U of South Florida	145,397	50,557	6,978	10,873	64,713	12,276
53 U Med & Dent of NJ	140,951	75,318	7,230	10,001	34,912	13,490
54 Oregon State University	140,751	80,398	31,434	141	23,904	4,874
55 U of Nebraska at Lincoln	136,023	37,831	4,640	5,991	80,439	7,122
56 University of New Mexico	133,980	100,442	1,904	1,853	25,321	4,460
57 Mississippi State U	132,503	53,808	30,317	7,955	40,423	0
58 Oregon Health Sciences U	131,486	109,165	1,956	12,430	0	7,935
59 UT Houston Hlth Sci Ctr	119,587	79,665	2,803	13,029	7,995	16,095
60 U CA Santa Barbara	118,154	80,754	2,375	5,499	18,973	10,553
Total, 1st 60 institutions	15,419,238	8,043,612	1,430,431	1,099,597	3,724,133	1,121,465
61 Clemson University	114,903	31,304	24,363	9,768	44,347	5,121
62 Arizona State University	108,117	49,935	4,398	4,700	45,051	4,033
63 Florida State University	105,095	56,830	4,172	693	40,170	3,230
64 Washington State U	104,796	48,441	4,284	4,579	36,280	11,212
65 U of South Carolina	104,398	51,872	4,895	2,822	41,294	3,515
66 U TX Hlth Sci Ctr San Ant	103,824	65,251	9,671	10,707	11,305	6,890
67 Utah State University	103,161	57,378	16,241	7,885	17,370	4,287
68 U of Alaska Fairbanks	102,500	46,605	3,267	19,686	32,937	5
69 U TX Med Br at Galveston	97,896	61,357	8,588	6,146	11,236	10,569
70 U MA Worcester	97,587	64,212	23,474	3,467	0	6,434
Total, 1st 70 institutions	16,461,515	8,576,797	1,533,784	1,170,050	4,004,123	1,176,761
71 U MA Amherst	97,052	44,697	6,961	5,535	31,879	7,980
72 Auburn University	92,612	31,515	221	3,917	52,734	4,225
73 Kansas State University	91,790	31,185	36,300	4,057	17,294	2,954
74 Oklahoma State University	88,285	24,770	25,770	4,076	33,002	667
75 Virginia Commonwealth U	88,220	52,137	2,056	7,495	21,688	4,844
76 U CA Riverside	83,580	21,085	3,569	3,345	46,451	9,130
77 SUNY at Albany	82,792	62,059	7,521	622	5,944	6,646
78 New Mexico State Univ	79,695	57,073	7,883	3,466	10,232	1,041
79 University of Delaware	74,711	37,716	4,032	3,757	19,430	9,776
80 U of New Hampshire	72,108	38,921	7,295	4,923	13,897	7,072
Total, 1st 80 institutions	17,312,360	8,977,955	1,635,392	1,211,243	4,256,674	1,231,096
81 U of Arkansas Main	70,817	20,778	32,860	4,746	9,155	3,278
82 Texas Tech University	68,224	21,481	21,164	5,946	15,621	4,012
83 West Virginia University	66,130	28,013	2,620	7,185	23,701	4,611
84 Montana St U Bozeman	65,324	30,564	15,772	8,523	10,465	0
85 Med U of South Carolina	65,243	41,432	2,245	2,880	15,300	3,386
86 University of Louisville	64,062	17,713	1,564	6,532	33,447	4,806
87 University of Vermont	63,391	39,861	3,262	5,713	10,239	4,316
88 University of Idaho	61,347	23,014	16,971	2,764	15,148	3,450
89 U of Nevada Reno	56,248	26,267	1,559	2,557	23,734	2,131
90 U CA Santa Cruz	56,212	25,959	1,232	1,531	20,806	6,684
Total, 1st 90 institutions	17,949,358	9,253,037	1,734,641	1,259,620	4,434,290	1,267,770
91 San Diego St University	55,002	22,802	7,290	1,811	17,811	5,288
92 U of Maine	54,821	24,412	5,872	2,899	19,674	1,964
93 Temple University	52,466	38,213	658	188	6,657	6,750
94 U of Nebraska Med Ctr	51,547	19,878	1,568	5,486	15,360	9,255
95 North Dakota State U	50,063	15,463	2,391	2,044	28,159	2,006
96 U of Arkansas Medical Sci	49,074	29,962	1,012	3,321	10,979	3,800
97 University of Houston	48,902	21,365	13,521	1,689	7,837	4,490
98 U of Rhode Island	48,135	38,538	4,464	1,194	3,501	438
99 NJ Inst of Technology	47,895	17,381	8,187	1,344	1,603	19,380
100 U of Central Florida	47,646	13,801	6,734	5,833	21,278	0
Total, 1st 100 institutions	18,454,909	9,494,852	1,786,338	1,285,429	4,567,149	1,321,141

See explanatory information and SOURCE at end of table.

**Table B-36. R&D expenditures at public universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

Page 3 of 4

Institution and ranking	Total	Federal Govt.	State & local govt.	Industry	Institutional funds	Other
101 Medical Col of Georgia	45,596	15,210	736	3,609	23,988	2,053
102 U Mississippi, All Camp	44,927	28,107	7,488	2,034	4,233	3,065
103 University of Wyoming	43,094	16,556	1,470	2,941	20,103	2,024
104 U of Alabama Huntsville	41,274	25,939	1,528	4,532	9,275	0
105 Naval Postgrad School	37,502i	36,476i	234i	316i	0i	476i
106 Georgia State University	36,600	12,090	5,666	784	14,659	3,401
107 S Illinois U Carbondale	36,354	10,130	8,047	2,355	12,231	3,591
108 University of Oregon	35,934	30,793	410	237	2,852	1,642
109 U PR Mayaguez Campus	34,683	11,837	14,088	3,971	4,451	336
110 Florida International U	34,649	20,296	8,600	1,843	3,477	433
Total, 1st 110 institutions	18,845,522	9,702,286	1,834,605	1,308,051	4,662,418	1,338,162
111 Col of William & Mary	33,299	13,031	3,113	638	14,467	2,050
112 U of LA Lafayette	32,692	12,164	2,360	0	9,458	8,710
113 CA St U Long Beach	32,551	12,964	13,457	673	3,604	1,853
114 University of Alabama, The	31,847	19,486	3,308	1,941	7,112	0
115 SUNY Hlth Sci Ctr Brklyn	31,626	22,860	229	1,787	4,094	2,656
116 U MD Ctr for Environ Sci	31,605	10,805	3,873	58	14,367	2,502
117 U MD Biotechnology Inst	29,946	11,157	1,483	915	14,132	2,259
118 Univ of Montana, The	29,590	18,378	991	1,474	5,193	3,554
119 Wright State University	29,092	12,543	3,648	2,968	9,478	455
120 Univ of Memphis, The	27,381	11,177	2,937	490	11,633	1,144
Total, 1st 120 institutions	19,155,151	9,846,851	1,870,004	1,318,995	4,755,956	1,363,345
121 Michigan Tech University	27,204	16,650	870	3,834	5,046	804
122 George Mason University	26,793	20,669	1,092	630	842	3,560
123 SUNY Col Env Sci Frstry	26,663	4,332	2,665	1,914	16,889	863
124 U MD Baltimore County	26,044	20,244	1,156	2,159	2,278	207
125 U of Missouri Rolla	25,968	9,804	322	2,543	10,892	2,407
126 Desert Research Institute	25,877	19,923	1,890	844	807	2,413
127 TX A&M U Sys Hlth Sci Ctr	25,736	14,321	6,290	2,704	2,421	0
128 Old Dominion University	25,058	14,908	4,313	3,533	2,304	0
129 U of Nevada Las Vegas	24,215	13,815	3,583	2,131	4,686	0
130 Unif Svcs U of Hlth Sci	23,987	11,023	0	0	12,964	0
Total, 1st 130 institutions	19,412,696	9,992,540	1,892,185	1,339,287	4,815,085	1,373,599
131 Ohio University	23,767	11,695	1,841	1,591	7,375	1,265
132 NM Inst Mining & Tech	23,636	8,652	2,133	6,373	6,187	291
133 Colorado School of Mines	21,795	11,995	1,550	7,870	380	0
134 Florida A&M University	21,612	16,278	5,334	0	0	0
135 U PR Med Sci Campus	21,373	16,657	19	954	3,565	178
136 San Jose State University	21,005e	11,825e	2,537e	4,324e	1,655e	664e
137 U TX at El Paso	20,877	16,416	2,881	941	639	0
138 U WI-Milwaukee	20,010	8,425	3,358	568	6,394	1,265
139 U of Missouri Kansas City	19,647	7,490	75	660	10,376	1,046
140 Florida Atlantic U	19,535	12,359	789	6,387	0	0
Total, 1st 140 institutions	19,625,953	10,114,332	1,912,702	1,368,955	4,851,656	1,378,308

See explanatory information and SOURCE at end of table.

**Table B-36. R&D expenditures at public universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Federal Govt.	State & local govt.s.	Industry	Institutional funds	Other
141 University of Akron	19,495	7,081	1,153	3,090	6,356	1,815
142 U MA Lowell	19,334	9,905	599	7,204	1,626	0
143 SUNY at Binghamton	18,661	6,319	2,746	3,327	3,961	2,308
144 U Southern Mississippi	17,706	15,084	1,028	984	610	0
145 U of North Dakota	17,343	13,880	26	2,356	492	589
146 SUNY Upstate Med U	17,095	8,461	494	263	844	7,033
147 CUNY City College	17,059	13,059	1,812	1,659	356	173
148 South Dakota State U	16,784	7,448	5,983	257	1,965	1,131
149 Portland State University	16,494	11,217	735	494	3,361	687
150 Wichita State University	16,213	5,228	1,543	3,500	5,816	126
Total, 1st 150 institutions	19,802,137	10,212,014	1,928,821	1,392,089	4,877,043	1,392,170
Total, all other sampled institutions	715,299	425,866	80,515	54,441	115,409	39,068

KEY: e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-37. R&D expenditures at private universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total	Federal Govt.	State & local govt.	Industry	Institutional funds	Other
Total, all institutions	9,544,935	6,855,593	194,927	731,722	932,039	830,654
1 Johns Hopkins U ¹	901,156	793,266	2,391	15,751	46,940	42,808
2 Stanford University	454,780	367,127	5,710	41,269	19,286	21,388
3 U of Pennsylvania	430,389	312,434	1,830	32,632	40,981	42,512
4 MA Institute of Tech	426,299	306,668	197	83,082	9,896	26,456
5 Cornell University	410,393	229,872	40,177	12,697	85,090	42,557
6 Washington University	362,216	254,148	6,956	22,691	40,160	38,261
7 Duke University	356,625	204,180	6,083	109,791	16,752	19,819
8 Harvard University	341,810	281,699	1,295	12,189	0	46,627
9 Baylor Col of Medicine	334,175	193,249	2,714	17,578	49,443	71,191
10 Columbia U in City of NY	319,693	283,163	1,424	3,362	10,522	21,222
Total, 1st 10 institutions	4,337,536	3,225,806	68,777	351,042	319,070	372,841
11 U of Southern California	300,445	210,872	10,991	25,298	53,284	0
12 Yale University	296,706	232,019	902	14,355	18,304	31,126
13 Northwestern University	245,774	150,238	3,565	12,860	56,937	22,174
14 California Inst of Tech	222,666	176,177	2,697	29,619	14,173	0
15 Emory University	206,070	144,914	4,061	7,513	18,901	30,681
16 University of Rochester	197,335	150,593	10,300	17,595	6,944	11,903
17 Case Western Reserve U	193,057	150,586	3,622	5,890	16,605	16,354
18 New York University	182,205	117,163	1,729	7,767	24,488	31,058
19 Vanderbilt University	171,926	129,986	27	4,063	20,681	17,169
20 University of Chicago	170,678	140,872	3,278	1,462	10,791	14,275
Total, 1st 20 institutions	6,524,398	4,829,226	109,949	477,464	560,178	547,581
21 Boston University	154,029	133,730	1,281	8,574	0	10,444
22 Mt Sinai Sch Med	149,846	98,188	2,989	12,141	17,690	18,838
23 University of Miami	145,795	106,633	1,446	17,028	6,178	14,510
24 Yeshiva University	139,618	101,631	0	0	37,987	0
25 Carnegie Mellon U	137,980	91,191	3,223	21,136	0	22,430
26 Princeton University	134,875	74,681	2,574	6,881	34,704	16,035
27 Georgetown University	133,211	98,836	576	9,795	13,950	10,054
28 Rockefeller U, The	124,138	45,211	4,932	2,775	42,054	29,166
29 Tufts University	105,783	64,677	1,475	8,118	20,753	10,760
30 Tulane University	89,785	52,080	2,371	10,340	17,703	7,291
Total, 1st 30 institutions	7,839,458	5,696,084	130,816	574,252	751,197	687,109
31 Thomas Jefferson U	89,626	67,448	3,229	12,324	1,563	5,062
32 Wake Forest University	86,840	65,585	776	15,125	1,172	4,182
33 Woods Hole Oceanogr Inst	81,547	67,036	244	142	4,104	10,021
34 Brown University	81,476	49,943	100	1,530	26,742	3,161
35 Dartmouth College	78,874	56,369	2,452	4,274	9,027	6,752
36 Medical Col of Wisconsin	70,581	55,034	1	1,931	6,905	6,710
37 George Washington U	69,300	49,627	2,649	4,220	4	12,800
38 Rush University	68,189	32,573	508	8,762	22,700	3,646
39 Brandeis University	47,658	26,444	88	0	5,697	15,429
40 Rice University	41,840	35,144	1,860	2,858	0	1,978
Total, 1st 40 institutions	8,555,389	6,201,287	142,723	625,418	829,111	756,850
41 MCP Hahnemann University ..	41,670	27,379	7,990	2,967	157	3,177
42 Rensselaer Polytech Inst	40,762	25,555	5,586	6,581	1,622	1,418
43 Syracuse University	39,468	29,630	1,830	1,210	1,703	5,095
44 University of Dayton	39,345	31,717	520	5,598	1,350	160
45 Northeastern University	35,340	26,916	162	3,567	4,143	552
46 University of Notre Dame	34,524	27,362	102	2,279	4,781	0
47 C R Drew U of Med & Sci	31,045	21,969	7,973	1,103	0	0
48 Saint Louis University	31,002	26,453	263	3,018	580	688
49 Loyola U of Chicago	30,034	20,695	330	1,484	4,565	2,960
50 Boston College	27,767	16,673	1,706	1,487	4,936	2,965
Total, 1st 50 institutions	8,906,346	6,455,636	169,185	654,712	852,948	773,865

See explanatory information and SOURCE at end of table.

**Table B-37. R&D expenditures at private universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total	Federal Govt.	State & local govt.	Industry	Institutional funds	Other
51 Howard University	27,254	25,292	76	1,874	0	12
52 Lehigh University	25,506	12,726	3,819	5,636	3,041	284
53 Drexel University	24,876	14,292	1,163	3,137	6,284	0
54 Loma Linda University	24,369	18,811	0	4,181	1,263	114
55 New York Medical College	23,348	17,975	172	3,294	0	1,907
56 Eastern VA Med School	23,299	12,114	31	6,044	110	5,000
57 OR Grad Inst Sci & Tech	18,856	13,743	865	1,315	2,082	851
58 Mercer University	18,138	11,350	31	1,405	5,352	0
59 Brigham Young University	17,237	10,378	1,303	2,028	2,222	1,306
60 Clark Atlanta University	16,891	16,170	12	190	89	430
Total, 1st 60 institutions	9,126,120	6,608,487	176,657	683,816	873,391	783,769
61 Morehouse School of Med	16,889	15,419	212	677	581	0
62 Stevens Inst of Tech	15,879	8,785	2,214	2,555	2,257	68
63 Creighton University	15,841	5,541	983	6,084	3,120	113
64 Polytechnic University	15,500	8,200	2,800	2,100	1,400	1,000
65 Illinois Inst of Tech	13,734	10,926	391	1,549	868	0
66 Albany Medical College	11,522	7,691	0	33	3,012	786
67 Inst of Paper Sci & Tech	10,533e	3,398e	296i	1,250i	5,241i	348i
68 Worcester Polytech Inst	10,315	4,219	130	1,380	2,895	1,691
69 University of Tulsa	10,054	5,498	954	3,179	423	0
70 Southern Methodist U	9,713	6,302	410	557	1,901	543
Total, 1st 70 institutions	9,256,100	6,684,466	185,047	703,180	895,089	788,318
71 Meharry Medical College	9,460e	9,192e	0e	0e	0e	268e
72 Catholic U of America	9,329	7,680	27	363	904	355
73 Hampton University	9,323	8,994	0	10	269	50
74 Tuskegee University	8,893	6,694	0	0	0	2,199
75 Teachers Col, Columbia U	8,561	5,613	0	0	0	2,948
76 University of Denver	8,383	7,439	68	67	198	611
77 Clarkson University	7,751	3,837	720	1,447	1,747	0
78 Marquette University	7,653	3,085	1,544	1,331	638	1,055
79 Finch U Hlth Sci Chicago	7,587	5,117	0	90	1,117	1,263
80 Alfred University	6,442	1,227	898	3,066	928	323
Total, 1st 80 institutions	9,339,482	6,743,344	188,304	709,554	900,890	797,390
81 Florida Inst of Tech	6,058	2,980	421	920	1,676	61
82 Harvey Mudd College	5,699e	1,032e	83i	406i	499i	3,679i
83 U Ctrl Del Caribe Esc Med	5,677	5,347	0	0	329	1
84 Wesleyan University	5,673	4,058	10	15	1,140	450
85 Villanova University	5,280	4,035	130	865	250	0
86 New School University	5,209	873	0	0	0	4,336
87 Rose-Hulman Inst of Tech	4,994	420	8	334	0	4,232
88 Wellesley College	4,943i	2,304i	31i	27i	800i	1,781i
89 Rochester Inst of Tech	4,755	2,664	486	917	0	688
90 Fordham University	3,584	2,101	200	0	125	1,158
Total, 1st 90 institutions	9,391,354	6,769,158	189,673	713,038	905,709	813,776

See explanatory information and SOURCE at end of table.

**Table B-37. R&D expenditures at private universities and colleges,
by source of funds: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Federal Govt.	State & local govt.	Industry	Institutional funds	Other
91 Xavier University of LA	3,425	3,174	41	0	202	8
92 Ponce School of Medicine	3,403	3,257	0	0	81	65
93 Fisk University	3,401	2,652	8	422	0	319
94 Baylor University	3,307	353	520	475	1,428	531
95 Texas Christian U	3,050	2,441	121	391	97	0
96 Nova Southeastern U	2,919	2,060	413	0	6	440
97 Clark University	2,908	1,652	36	16	0	1,204
98 Morehouse College	2,853e	1,843e	0e	826e	184e	0e
99 Bryn Mawr College	2,791	978	305	9	1,338	161
100 Baylor Col of Dentistry	2,718	1,380	413	124	243	558
Total, 1st 100 institutions	9,422,129	6,788,948	191,530	715,301	909,288	817,062
Total, all other sampled institutions	122,806	66,645	3,397	16,421	22,751	13,592

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-38. Industry-sponsored R&D expenditures at universities and colleges,
ranked by fiscal year 2000 industry-sponsored R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

Page 1 of 5

Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
Total, all institutions	1,360,357	1,422,170	1,488,895	1,605,258	1,736,668	1,888,171	2,036,037	2,178,252
1 Duke University	34,572	30,241	32,560	42,797	48,178	65,114	121,630	109,791
2 MA Institute of Tech	58,106	55,500	52,757	62,699	59,204	60,538	75,444	83,082
3 Georgia Institute of Tech	28,872	27,832	26,104	39,136	48,094	58,377	62,752	64,508
4 Pennsylvania State U	41,736	45,408	50,225	52,771	56,666	63,319	65,698	64,393
5 U of Washington	30,780	33,199	36,892	36,180	37,744	38,370	51,319	57,405
6 Ohio State University	13,647	14,883	21,827	30,870	36,685	40,401	52,034	57,075
7 Stanford University	15,337	14,714	16,446	19,167	23,839	27,404	31,516	41,269
8 University of Michigan	26,733	26,732	28,987	34,975	31,411	33,029	34,432	35,515
9 U CA San Francisco	9,244	10,977	13,890	16,989	26,931	34,369	36,830	34,964
10 University of Florida	11,105	10,858	10,611	23,532	25,217	21,393	28,183	34,879
Total, 1st 10 institutions	270,132	270,344	290,299	359,116	393,969	442,314	559,838	582,881
11 U CA San Diego	10,081	9,764	11,363	15,130	23,725	27,010	31,356	34,541
12 U CA Los Angeles	13,606	13,394	14,892	15,788	23,144	28,310	34,404	33,427
13 NC State University	22,229	22,101	26,264	26,067	26,834	31,429	31,478	32,804
14 U of Pennsylvania	11,440	12,107	11,900	9,445	18,964	25,593	30,269	32,632
15 Texas A&M University	27,182	28,576	31,452	26,947	31,816	33,674	34,722	31,084
16 Purdue University	13,174	21,639	25,147	25,720	26,090	26,988	28,856	29,997
17 U of MD Baltimore	14,420	15,411	17,797	19,450	18,581	20,783	11,572	29,892
18 California Inst of Tech	3,835	4,947	5,105	4,447	3,789	2,001	6,332	29,619
19 U CA Berkeley	12,269	12,547	13,842	15,128	21,253	20,902	21,928	27,851
20 University of Minnesota	21,524	23,726	23,427	23,726	24,196	24,094	23,933	26,392
Total, 1st 20 institutions	419,892	434,556	471,488	540,964	612,361	683,098	814,688	891,120
21 U of Southern California	13,444	14,502	17,668	21,592	21,606	24,125	23,111	25,298
22 U TX at Austin	4,106	4,268	3,257 i	15,029	29,887	31,326	39,729	24,740
23 Washington University	19,388	20,629	21,977	18,700	21,205	19,869	19,964	22,691
24 University of Arizona	13,469	15,053	15,300	13,106	14,964	16,392	16,660	22,412
25 Carnegie Mellon U	18,180	14,112	17,763	21,521	18,016	19,136	17,761	21,136
26 U TX MD Anderson Cnrc Ctr ..	0	0	0	0	0	0	0	20,271
27 U of Alaska Fairbanks	4,751	4,441	5,470	9,965	12,769	16,081	19,340	19,686
28 U CA Irvine	4,898	6,243	9,139	10,391	12,712	15,981	16,539	18,615
29 U CA Davis	6,852	7,423	8,053	9,387	10,731	14,238	16,242	17,891
30 University of Rochester	7,868	10,261	12,810	11,605	14,147	17,653	18,226	17,595
Total, 1st 30 institutions	512,848	531,488	582,925	672,260	768,398	857,899	1,002,260	1,101,455
31 Baylor Col of Medicine	9,914	11,919	12,217	13,655	14,420	16,588	19,400	17,578
32 University of Virginia	10,389	14,826	15,442	4,552	7,627	12,428	12,989	17,266
33 U of Iowa	10,478	10,205	11,359	14,862	15,712	17,262	20,778	17,262
34 University of Miami	10,828	11,140	11,831	12,321	12,200	13,338	15,752	17,028
35 U WI-Madison	12,392	13,729	12,948	13,871	14,832	14,371	14,172	16,127
36 Johns Hopkins U	12,564	10,418	10,652	12,388	13,917	14,761	15,317	15,751
37 University of Kansas	4,037	4,320	8,149	9,356	8,201	8,281	14,393	15,712
38 Wake Forest University	8,333	9,064	11,144	12,697	16,246	15,546	16,320	15,125
39 Louisiana State U System	9,203	9,037	10,432	11,298	13,331	12,157	13,187	15,108
40 Iowa State University	7,402	8,185	8,017	7,407	8,499	13,717	14,905	15,075
Total, 1st 40 institutions	608,388	634,331	695,116	784,667	893,383	996,348	1,159,473	1,263,487
41 VA Polytech Inst & St U	13,224	12,580	11,500	11,365	11,385	12,132	13,287	14,869
42 U TX SW Med Ctr at Dallas	11,173	13,092	14,986	13,801	12,737	13,926	16,197	14,861
43 University of Pittsburgh	9,804	7,561	8,208	7,880	9,753	10,436	12,990	14,676
44 Yale University	9,994	11,145	13,623	15,322	16,629	15,829	15,242	14,355
45 University of Connecticut	8,357	7,651	6,640	8,026	8,572	9,905	10,355	13,540
46 UT Houston Hlth Sci Ctr	6,907	6,313	6,212	7,403	9,780	11,106	12,872	13,029
47 Northwestern University	8,784	9,203	7,257	9,378	10,498	13,292	14,168	12,860
48 U of Tennessee System	11,722	10,699	11,077	11,759	12,675	12,551	15,093	12,740
49 Cornell University	15,789	17,199	17,752	14,915	8,215	11,253	12,053	12,697
50 U of IL Urbana-Champaign	16,095	13,527	11,832	12,365	11,761	13,636	12,864	12,693
Total, 1st 50 institutions	720,237	743,301	804,203	896,881	1,005,388	1,120,414	1,294,594	1,399,807

See explanatory information and SOURCE at end of table.

**Table B-38. Industry-sponsored R&D expenditures at universities and colleges,
ranked by fiscal year 2000 industry-sponsored R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

Page 2 of 5

Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
51 Oregon Health Sciences U	992	945	4,685	4,597	7,036	1,757 i	1,599 i	12,430
52 Thomas Jefferson U	6,138	7,455	8,105	9,553	9,851	10,155	12,081	12,324
53 University of Georgia	8,803	8,773	10,595	9,861	10,283	10,534	11,034	12,276
54 Harvard University	9,319e	10,228	8,395 i	12,522	11,588	10,361	11,790	12,189
55 Mt Sinai Sch Med	5,549	5,934	5,571	3,288	6,994	7,588	9,257	12,141
56 Michigan State University	6,442	6,271	7,853	6,818	6,973	7,250	7,647	11,230
57 University of Kentucky	9,924	11,790	12,011	13,374	11,259	13,668	15,109	11,213
58 Univ of Hawaii at Manoa	151	434	299	8,088	5,944	10,949	13,021	11,158
59 U of IL Chicago	4,570	5,061	6,174	6,746	6,947	9,424	9,683	11,010
60 Wayne State University	7,738	7,988	7,973	8,977	10,959	11,207	10,660	10,932
Total, 1st 60 institutions	779,863	808,180	875,864	980,705	1,093,222	1,213,307	1,396,475	1,516,710
61 U of South Florida	5,041	6,338	4,782	3,282	3,747	5,397	6,236	10,873
62 U TX Hlth Sci Ctr San Ant	6,746	7,300	8,922	9,021	9,051	10,845	10,777	10,707
63 Tulane University	6,618	10,018	10,115	11,276	12,913	10,734	11,914	10,340
64 U Med & Dent of NJ	7,431	8,984	8,164	7,741	8,519	8,841	10,736	10,001
65 Georgetown University	5,914	6,773	6,148	6,737	8,421	9,383	7,939	9,795
66 Clemson University	6,035	5,410	5,469	5,887	5,253	6,641	8,445	9,768
67 University of Oklahoma	3,918	4,887	5,630	6,650	6,871	7,661	7,756	9,499
68 University of Colorado	12,218	13,312	7,607	8,902	9,403	9,963	9,867	9,291
69 Rutgers the State U NJ	7,734	7,796	7,797	7,079	8,848	9,038	9,833	8,843
70 Rush University	5,036	4,993	4,970	5,872	7,232	8,911	8,154	8,762
Total, 1st 70 institutions	846,554	883,991	945,468	1,053,152	1,173,480	1,300,721	1,488,132	1,614,589
71 Boston University	9,982	8,695	8,804	8,726	8,916	9,461	7,601	8,574
72 Montana St U Bozeman	2,910	3,139	5,143	5,489	6,976	7,378 i	7,079	8,523
73 Tufts University	4,647e	5,131	4,687e	4,970	5,344	5,560	7,027	8,118
74 Mississippi State U	6,012	5,913	6,165	7,599	5,469	7,470	7,892	7,955
75 University of Utah	4,357	4,087	4,319	3,825	10,374	10,007	8,951	7,940
76 Utah State University	3,268	2,265	3,322	4,614	3,356	2,744	3,998	7,885
77 Colorado School of Mines	5,770	5,087	6,601 i	8,114	8,038	9,877	9,292	7,870
78 New York University	4,917	5,929	6,461	10,461	8,502	8,391	7,502	7,767
79 U of Alabama Birmingham	10,832	14,772	19,219	17,354	16,233	16,842	10,181	7,752
80 SUNY at Stony Brook	4,670	5,012	5,850	5,848	7,119	6,908	7,416	7,567
Total, 1st 80 institutions	903,919	944,021	1,016,039	1,130,152	1,253,807	1,385,359	1,565,071	1,694,540
81 Emory University	8,145	8,966	11,473	6,383	6,700	7,670	7,794	7,513
82 Virginia Commonwealth U	6,591	7,089	6,074	7,435	9,172	8,478	8,062	7,495
83 U MA Lowell	3,691	3,695	3,599	5,779	4,920	5,099	6,234	7,204
84 West Virginia University	3,973	4,058	3,160	3,608	3,719	4,547	5,532	7,185
85 Princeton University	5,829	8,089	6,335	4,483	4,441	5,242	5,965	6,881
86 U of NC Chapel Hill	2,539	2,379	2,403	2,592	3,311	4,860	5,886	6,835
87 Rensselaer Polytech Inst	10,813	5,925	6,135	6,210	9,340	10,974	10,084	6,581
88 University of Louisville	3,651	4,180	4,616	6,312	3,522	4,800	6,100	6,532
89 Colorado State University	5,369	11,793	5,736	6,320	5,712	6,155	7,213	6,519
90 Florida Atlantic U	2,504	1,909	1,777	1,776	1,922	3,981	5,681	6,387
Total, 1st 90 institutions	957,024	1,002,104	1,067,347	1,181,050	1,306,566	1,447,165	1,633,622	1,763,672
91 NM Inst Mining & Tech	9,803	6,057	5,165	6,895	4,723	6,385	7,034	6,373
92 U TX Med Br at Galveston	4,831	6,115	5,991	6,008	7,301	5,319	6,366	6,146
93 Creighton University	3,116	3,467	3,885	4,517	5,094	6,475	6,242	6,084
94 Eastern VA Med School	544	4,064	5,975	5,039	5,762	7,448	8,561	6,044
95 U of Nebraska at Lincoln	2,287	3,558	3,145	3,465	4,651	4,721e	5,466	5,991
96 Texas Tech University	5,284	5,474	5,441	5,634	5,650	5,549	5,682	5,946
97 Case Western Reserve U	6,480	5,708	5,427	5,784	5,662	6,984	6,157	5,890
98 U of Central Florida	5,810	2,272	2,272	1,207	9,800	4,019	4,873	5,833
99 University of Vermont	4,573	4,878	5,467	5,231	5,399	5,513	7,112	5,713
100 Lehigh University	8,088	7,303	6,767	6,832	6,790	6,074	6,669	5,636
Total, 1st 100 institutions	1,007,840	1,051,000	1,116,882	1,231,662	1,367,398	1,505,652	1,697,784	1,823,328

See explanatory information and SOURCE at end of table.

**Table B-38. Industry-sponsored R&D expenditures at universities and colleges,
ranked by fiscal year 2000 industry-sponsored R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
101 University of Dayton	4,813	5,313	5,834	6,160	5,541	6,285	4,454	5,598
102 SUNY at Buffalo	5,584	8,143	13,390	13,186	14,480	3,021	5,485	5,590
103 U MA Amherst	5,288	4,868	4,760	5,738	5,778	6,236	5,796	5,535
104 U CA Santa Barbara	2,487	2,711	2,576	2,988	3,106	3,809	4,742	5,499
105 U of Nebraska Med Ctr	3,488	3,639	3,903	4,286	3,941	5,471	5,445	5,486
106 Indiana University	4,850	5,689	5,815	5,357	4,242	6,333	4,820	5,384
107 University of Cincinnati	10,621	10,405	8,630	16,697	22,907	24,388	5,989	5,166
108 U of New Hampshire	1,467	1,476	1,723	1,315	1,600	3,635	4,395	4,923
109 U of Arkansas Main	4,964	5,605	4,809	4,474	4,130	5,145	6,198	4,746
110 U TX at Dallas	969	1,220	1,166 i	1,113	1,275	981	1,336	4,715
Total, 1st 110 institutions	1,052,371	1,100,069	1,169,488	1,292,976	1,434,398	1,570,956	1,746,444	1,875,970
111 Arizona State University	4,772	5,780	7,169	2,758	3,376	4,609	4,267	4,700
112 Washington State U	2,726	3,151	2,537	3,149	3,138	3,158	3,158	4,579
113 U of Alabama Huntsville	2,857	2,948	3,390	4,752	5,110	5,883	5,071	4,532
114 San Jose State University	4,324	4,324 i	4,324 i	4,324 i	4,324 i	4,324 e	4,324 e	4,324 e
115 Dartmouth College	3,375	2,833	2,196	2,571	3,280	2,574	4,544	4,274
116 George Washington U	2,168	2,676	4,314	5,704	7,865	7,575	4,001	4,220
117 Loma Linda University	2,228	2,514	2,499	3,273	3,291	3,192	4,310	4,181
118 Oklahoma State University	3,531	3,381	2,902	2,334	3,252	2,887	3,447	4,076
119 Vanderbilt University	2,523	3,033	3,124	3,097	2,583	4,036	3,730	4,063
120 Kansas State University	2,889	3,111	2,701	2,243	2,943	3,445	3,746	4,057
Total, 1st 120 institutions	1,083,764	1,133,820	1,204,644	1,327,181	1,473,560	1,612,639	1,787,042	1,918,976
121 U of Missouri Columbia	7,907	10,299	10,114	3,158	3,777	4,348	3,832	4,007
122 U PR Mayaguez Campus	382	1,241	1,852	2,275	2,307	2,701	2,771	3,971
123 Indiana State University	233	250	388	477	556	4,611	4,591	3,928
124 Auburn University	6,059	3,055	3,243	4,212	4,644	4,452	3,649	3,917
125 Michigan Tech University	3,127	2,885	2,840	3,636	3,819	3,747	3,578	3,834
126 University of Delaware	4,857	4,117	3,681	2,964	3,361	3,859	4,152	3,757
127 Medical Col of Georgia	2,777	3,575	3,484	2,995	2,578	3,072	3,603	3,609
128 Northeastern University	1,445	2,002	2,334	2,072	2,827	3,530	2,981	3,567
129 Old Dominion University	1,151	1,061	1,771	2,233	2,357	1,974	2,787	3,533
130 Wichita State University	601	430	584	532	763	378	1,043	3,500
Total, 1st 130 institutions	1,112,303	1,162,735	1,234,935	1,351,735	1,500,549	1,645,311	1,820,029	1,956,599
131 U MA Worcester	3,721	3,776	2,492	1,146	2,129	2,631	4,265	3,467
132 New Mexico State Univ	3,466	3,516	2,444	2,556	2,393	2,843	2,892	3,466
133 Columbia U in City of NY	5,919	1,632	1,478	2,559	1,637	3,018	2,630	3,362
134 U CA Riverside	1,208	1,103	1,109	1,702	1,905	1,929	3,893	3,345
135 SUNY at Binghamton	1,312	1,502	2,074	1,799	1,516	2,726	3,584	3,327
136 U of Arkansas Medical Sci	1,803	2,158	2,884	3,733	3,440	3,040	3,889	3,321
137 New York Medical College	1,480	1,807	1,792	1,532	1,810	2,461	3,742	3,294
138 University of Tulsa	2,761	2,652	2,921	2,820	3,913	2,772	3,561	3,179
139 East Carolina University	2,109	1,952	1,624	1,441	1,476	1,996	2,627	3,158
140 Drexel University	4,233	5,764	5,845	4,343	5,086	4,057	4,078	3,137
Total, 1st 140 institutions	1,140,315	1,188,597	1,259,598	1,375,366	1,525,854	1,672,784	1,855,190	1,989,655
141 University of Akron	4,922	3,822	3,542	3,313	3,411	2,767	2,150	3,090
142 Alfred University	1,897	2,012	1,967	1,755	1,633	1,946	2,414	3,066
143 Saint Louis University	1,054	1,545	2,087	2,483	2,618	2,733	3,113	3,018
144 CA St U Fresno	532	708 i	884 i	1,060 i	1,253 i	1,497 i	1,618 i	3,000
145 Wright State University	539	1,429	1,641	1,250	1,409	1,325	1,717	2,968
146 MCP Hahnemann University ..	4,638	5,556	4,675	5,060	8,525	6,835	1,552	2,967
147 University of Wyoming	2,268	1,185	1,930	2,086	2,226	3,114	3,206	2,941
148 U of Maine	4,117	4,406	4,158	4,214	5,609	7,074	2,324	2,899
149 Med U of South Carolina	1,793	5,534	6,026	1,134	1,371	2,737	2,202	2,880
150 Rice University	4,550	3,837	2,726	1,898	1,779	1,435	1,645	2,858
Total, 1st 150 institutions	1,166,625	1,218,631	1,289,234	1,399,619	1,555,688	1,704,247	1,877,131	2,019,342

See explanatory information and SOURCE at end of table.

**Table B-38. Industry-sponsored R&D expenditures at universities and colleges,
ranked by fiscal year 2000 industry-sponsored R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
151 U of South Carolina	6,414	8,046	7,869	3,657	2,058	2,022	2,176	2,822
152 Rockefeller U, The	4,907	4,031	2,660	2,800	2,577	2,641	2,707	2,775
153 University of Idaho	5,608	7,495	5,977	6,478	6,551 i	6,496	1,903	2,764
154 TX A&M U Sys Hlth Sci Ctr	--	--	--	--	--	--	--	2,704
155 U of Nevada Reno	1,033	1,674	1,756	1,399	1,806	1,394	1,374	2,557
156 Stevens Inst of Tech	1,659	1,884	1,685	2,087	2,777	2,748	2,424	2,555
157 U of Missouri Rolla	1,717	1,122	1,316	2,364	1,575	1,361	2,079	2,543
158 Institute of Textile Tech	2,284	2,239	2,586	2,742	2,792	2,650	2,161	2,357
159 U of North Dakota	982	728	1,814	2,971	2,166	2,357	2,308	2,356
160 S Illinois U Carbondale	2,033	2,347	2,325	2,033	1,954	2,306	2,462	2,355
Total, 1st 160 institutions	1,193,262	1,248,197	1,317,222	1,426,150	1,579,944	1,728,222	1,896,725	2,045,130
161 University of Notre Dame	4,024	3,710	2,665	3,511	1,979	2,020	2,920	2,279
162 Idaho State University	1,678	2,546	1,431	3,479	2,332	1,055	1,915	2,256
163 U MD Baltimore County	1,349	537	1,231	1,803	2,484	2,858	2,649	2,159
164 U of Nevada Las Vegas	919	1,582	1,828	1,443	2,058	2,461	2,596	2,131
165 U North TX Hlth Sci Ctr	744	573	343	384	258	553	2,389	2,105
166 Polytechnic University	1,420e	2,589	1,566	2,857	3,074	2,093	2,135	2,100
167 North Dakota State U	1,191	1,261	1,532	1,534	1,273	1,449	1,300	2,044
168 U Mississippi, All Camp	2,727	1,998	1,621	1,920	1,817	1,887	682	2,034
169 Brigham Young University	1,678	1,712	1,815	1,006 i	820 i	751	2,781	2,028
170 University of Toledo	1,956	1,694	1,467	1,613 i	1,241	934	1,245	2,013
Total, 1st 170 institutions	1,210,948	1,266,399	1,332,721	1,445,700	1,597,280	1,744,283	1,917,337	2,066,279
171 University of Alabama, The	2,419	2,332	1,920	1,407	1,345	1,301	1,577	1,941
172 Medical Col of Wisconsin	5,053	4,164	2,222	3,019	2,757	1,692	2,151	1,931
173 SUNY Col Env Sci Frstry	2,010	2,044	1,772 i	1,500	1,831	1,768	2,037	1,914
174 Howard University	434	1,741	2,342	1,057	1,059	1,519	1,774	1,874
175 University of New Mexico	5,474	4,038	3,087	2,389	2,799	3,331	2,940	1,853
176 Florida International U	366	413	512	527	543	559	729	1,843
177 San Diego St University	1,418	1,272	1,025	725	827	853	1,021	1,811
178 SUNY Hlth Sci Ctr Brklyn	4,421	4,306	5,232	4,808 i	4,385	3,045	2,261	1,787
179 Smith College	0 i	0	0 i	0 i	0	26	0	1,747
180 University of Houston	1,339	1,183	1,600	1,341	1,815	1,707	1,762	1,689
Total, 1st 180 institutions	1,233,882	1,287,892	1,352,433	1,462,473	1,614,641	1,760,084	1,933,589	2,084,669
181 Miami University (OH)	759	910	726	698	719	186	1,073	1,663
182 CUNY City College	1,327	1,211	1,322	1,039	2,668	950	1,531	1,659
183 Western Michigan U	994	1,168	1,077	1,403	1,460	1,600	1,648	1,650
184 Ohio University	2,201	2,690	2,526	2,322	2,132	1,948	2,843	1,591
185 Illinois Inst of Tech	1,031	1,254	1,634	4,000	3,524	2,469	2,451	1,549
186 U CA Santa Cruz	458	893	988	1,032	1,456	1,518	1,094	1,531
187 Brown University	1,825	1,467	1,057	1,716	1,506	1,603	1,795	1,530
188 Boston College	286	406	404	280	205	577	934	1,487
189 Loyola U of Chicago	3,614	3,795	3,461 i	4,271	3,211	3,024	1,922	1,484
190 Univ of Montana, The	324	826	682	1,511	1,494	1,059	1,247	1,474
Total, 1st 190 institutions	1,246,701	1,302,512	1,366,310	1,480,745	1,633,016	1,775,018	1,950,127	2,100,287

See explanatory information and SOURCE at end of table.

**Table B-38. Industry-sponsored R&D expenditures at universities and colleges,
ranked by fiscal year 2000 industry-sponsored R&D expenditures:
fiscal years 1993-2000**

[Dollars in thousands]

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Institution and ranking	1993	1994	1995	1996	1997	1998	1999	2000
191 Milwaukee School of Eng	746	884i	1,021i	1,159i	1,296i	1,463	1,434	1,472
192 University of Chicago	1,958	1,324	1,679	1,306	1,634	1,684	1,621	1,462
193 Clarkson University	1,455	1,658	1,698	1,779	1,512	1,500	1,226	1,447
194 Northern Arizona U	648	913	769	1,235	244	1,124	1,315	1,407
195 Mercer University	399	849	823	1,651	1,292	1,718	1,280	1,405
196 Worcester Polytech Inst	957	768	627	619	1,185	1,485	870	1,380
197 NJ Inst of Technology	3,459	3,288	1,879	2,313	1,600	1,258	1,258	1,344
198 Marquette University	801	1,041	1,187	1,158	1,112	1,641	1,178	1,331
199 OR Grad Inst Sci & Tech	2,638	2,973	3,042	2,757	1,253	1,316e	1,429	1,315
200 U of South Alabama	1,562	2,063	1,392	1,981	2,353	1,779	1,779e	1,298
Total, 1st 200 institutions	1,261,324	1,318,273	1,380,427	1,496,703	1,646,497	1,789,986	1,963,517	2,114,148
Total, all other sampled institutions	99,033	103,897	108,468	108,555	90,171	98,185	72,520	64,104

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-39. R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 1 of 5

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	30,062,371	4,550,315	2,705,907	1,768,760	1,219,099	17,479,853	516,365	1,295,905	526,167
1 Johns Hopkins U ¹	901,156	251,993	97,484	37,558	94,720	385,907	3,636	10,588	19,270
2 U WI-Madison	554,361	71,293	46,678	28,001	12,274	341,779	23,237	31,083	16
3 University of Michigan	551,556	136,176	23,407	7,609	12,225	306,199	9,076	56,840	24
4 U CA Los Angeles	530,826	46,434	45,035	14,893	12,638	368,030	9,012	32,915	1,869
5 U of Washington	529,342	39,009	27,122	64,112	9,238	372,339	9,493	8,029	0
6 U CA San Diego	518,559	46,660	33,652	115,186	51,277	255,497	5,364	9,668	1,255
7 U CA Berkeley	518,514	120,757	90,306	7,132	7,808	219,128	7,218	41,708	24,457
8 Stanford University	454,780	107,473	53,222	8,056	18,748	256,252	4,584	6,445	0
9 U CA San Francisco	443,013	0	12,332	0	0	429,541	0	1,140	0
10 U of Pennsylvania	430,389	13,315	24,780	847	10,118	343,388	2,903	30,842	4,196
Total, 1st 10 institutions	5,432,496	833,110	454,018	283,394	229,046	3,278,060	74,523	229,258	51,087
11 Pennsylvania State U	427,575	162,795	42,461	20,396	9,628	147,340	11,227	16,529	17,199
12 MA Institute of Tech	426,299	149,282	92,198	22,009	39,481	73,228	1,357	8,293	40,451
13 University of Minnesota	411,380	41,343	24,475	12,762	12,090	297,925	8,218	14,567	0
14 Cornell University	410,393	54,860	70,153	4,221	18,961	243,158	6,077	12,963	0
15 Texas A&M University	397,268	118,494	24,131	85,330	6,993	146,600	2,752	7,227	5,741
16 U of IL Urbana-Champaign	373,024	95,353	48,612	28,497	63,629	97,752	8,872	24,868	5,441
17 U CA Davis	364,789	35,197	18,183	9,958	3,719	292,503	1,509	3,649	71
18 Washington University	362,216	7,354	10,535	4,374	9,077	324,032	1,663	4,217	964
19 Ohio State University	361,399	82,705	24,446	7,512	22,801	194,937	4,480	20,035	4,483
20 Duke University	356,625	15,249	13,288	7,556	4,087	298,144	3,645	14,656	0
Total, 1st 20 institutions	9,323,464	1,595,742	822,500	486,009	419,512	5,393,679	124,323	356,262	125,437
21 University of Colorado	353,528	31,022	71,941	62,769	8,148	163,132	7,799	7,160	1,557
22 University of Arizona	345,090	48,272	83,227	10,343	7,685	180,467	38	15,044	14
23 Harvard University	341,810	4,402	32,530	13,868	3,904	251,246	4,387	31,473	0
24 Baylor Col of Medicine	334,175	0	0	0	0	334,175	0	0	0
25 Columbia U in City of NY	319,693	16,393	26,104	49,198	6,963	212,281	3,066	5,413	275
26 University of Florida	313,692	47,513	20,005	3,830	7,109	220,588	5,122	9,525	0
27 Georgia Institute of Tech	304,511	197,589	21,141	23,382	40,168	8,008	4,358	4,594	5,271
28 U of Southern California	300,445	46,319	10,177	14,394	53,132	162,756	3,965	7,640	2,062
29 Yale University	296,706	7,766	18,830	2,530	3,981	257,472	4,162	1,965	0
30 University of Pittsburgh	294,809	11,858	11,914	537	3,192	253,612	4,546	7,750	1,400
Total, 1st 30 institutions	12,527,923	2,006,876	1,118,369	666,860	553,794	7,437,416	161,766	446,826	136,016
31 NC State University	277,946	76,839	20,814	15,699	16,014	136,438	917	6,918	4,307
32 U TX at Austin	272,811	100,294	56,338	24,134	39,361	39,125	3,423	9,617	519
33 U of NC Chapel Hill	269,072	0	17,580	11,382	9,429	204,646	3,710	22,325	0
34 University of Georgia	258,476	7,605	10,068	13,994	7,615	180,275	7,632	31,287	0
35 U MD at College Park	252,429	76,091	53,718	6,402	20,632	37,526	3,233	54,827	0
36 Louisiana State U System	251,233	41,628	17,479	31,665	3,422	147,295	661	8,331	752
37 Northwestern University	245,774	44,685	20,408	859	4,929	153,243	2,952	8,260	10,438
38 U of Iowa	236,944	22,921	15,985	2,025	1,509	183,099	3,180	7,970	255
39 Purdue University	234,536	71,515	20,095	4,096	10,497	106,891	2,965	18,050	427
40 U of Alabama Birmingham	233,461	6,835	3,316	0	543	216,304	6,233	230	0
Total, 1st 40 institutions	15,060,605	2,455,289	1,354,170	777,116	667,745	8,842,258	196,672	614,641	152,714
41 Indiana University	227,737	2,614	29,682	3,070	5,916	131,540	9,073	29,271	16,571
42 Michigan State University	227,734	18,348	35,882	1,827	4,193	143,190	3,664	18,524	2,106
43 Rutgers the State U NJ	225,268	33,681	23,768	20,936	15,160	99,301	7,758	22,708	1,956
44 U of MD Baltimore	224,346	0	0	0	0	224,346	0	0	0
45 California Inst of Tech	222,666	43,320	118,664	13,846	4,673	31,932	0	439	9,792
46 Emory University	206,070	0	8,355	3	961	192,492	967	3,292	0
47 University of Kentucky	202,392	31,426	8,068	546	2,060	145,901	799	3,174	10,418
48 University of Rochester	197,335	46,494	13,461	707	2,650	124,571	7,975	1,387	90
49 U of IL Chicago	195,839	19,007	8,186	1,696	5,406	142,203	4,155	9,439	5,747
50 Case Western Reserve U	193,057	25,518	6,496	438	374	153,776	682	5,773	0
Total, 1st 50 institutions	17,183,049	2,675,697	1,606,732	820,185	709,138	10,231,510	231,745	708,648	199,394

See explanatory information and SOURCE at end of table.

**Table B-39. R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
51 VA Polytech Inst & St U	192,672	66,963	10,223	16,786	4,874	84,265	2,142	7,419	0
52 U TX SW Med Ctr at Dallas	189,216	0	0	0	0	189,216	0	0	0
53 SUNY at Buffalo	187,692	32,301	9,790	1,286	8,678	124,168	4,990	6,301	178
54 University of Utah	187,661	25,293	15,453	4,040	14,970	124,257	1,836	1,812	0
55 New York University	182,205	0	5,200	922	11,475	147,489	9,909	5,566	1,644
56 U TX MD Anderson Cnrc Ctr ..	182,196	0	3,707	0	5,142	173,347	0	0	0
57 Iowa State University	175,558	47,049	9,232	3,803	9,967	79,334	643	15,842	9,688
58 University of Virginia	174,522	26,910	13,233	5,692	4,912	117,971	3,002	2,479	323
59 University of Cincinnati	172,085	24,127	5,079	213	466	135,543	785	3,381	2,491
60 Vanderbilt University	171,926	12,223	12,865	269	870	137,734	2,674	5,291	0
Total, 1st 60 institutions	18,998,782	2,910,563	1,691,514	853,196	770,492	11,544,834	257,726	756,739	213,718
61 University of Chicago	170,678	0	35,534	5,663	3,242	121,687	2,306	2,246	0
62 U of Tennessee System	163,690	32,928	10,933	9,330	8,591	95,074	177	5,221	1,436
63 SUNY at Stony Brook	163,307	15,574	24,797	17,379	7,859	89,558	4,057	3,159	924
64 Univ of Hawaii at Manoa	161,300	8,734	26,699	51,453	434	63,662	457	3,611	6,250
65 University of Connecticut	161,084	27,294	7,097	8,259	1,861	97,825	7,876	8,552	2,320
66 U of Missouri Columbia	158,861	21,818	5,215	1,088	1,436	112,396	4,515	12,393	0
67 U CA Irvine	158,437	15,518	16,519	3,373	6,078	107,771	3,313	5,494	371
68 Wayne State University	156,814	12,155	11,683	31	1,337	120,701	3,096	5,358	2,453
69 Boston University	154,029	17,455	12,569	3,370	2,299	103,731	3,349	1,934	9,322
70 Colorado State University	152,279	15,452	8,469	14,402	2,465	96,098	2,679	2,722	9,992
Total, 1st 70 institutions	20,599,261	3,077,491	1,851,029	967,544	806,094	12,553,337	289,551	807,429	246,786
71 University of Oklahoma	150,902	15,163	15,549	29,158	3,225	63,984	13,927	9,896	0
72 Mt Sinai Sch Med	149,846	0	0	0	0	149,846	0	0	0
73 University of Kansas	148,670	12,403	10,207	10,919	4,304	95,317	1,224	5,711	8,585
74 University of Miami	145,795	1,344	2,268	28,353	179	103,472	6,893	3,286	0
75 U of South Florida	145,397	16,698	2,556	19,197	538	95,756	7,542	3,090	20
76 U Med & Dent of NJ	140,951	0	0	0	0	140,951	0	0	0
77 Oregon State University	140,751	13,903	5,479	33,940	2,299	82,485	21	2,112	512
78 Yeshiva University	139,618	0	0	0	0	139,618	0	0	0
79 Carnegie Mellon U	137,980	36,892	7,942	3,038	58,595	14,578	5,880	9,193	1,862
80 U of Nebraska at Lincoln	136,023	22,365	10,888	12,710	5,219	64,285	1,901	10,505	8,150
Total, 1st 80 institutions	22,035,194	3,196,259	1,905,918	1,104,859	880,453	13,503,629	326,939	851,222	265,915
81 Princeton University	134,875	41,026	27,100	12,946	8,815	23,185	5,259	16,544	0
82 University of New Mexico	133,980	26,464	11,000	1,953	3,004	46,280	5,872	6,574	32,833
83 Georgetown University	133,211	0	4,969	186	160	119,611	93	7,500	692
84 Mississippi State U	132,503	38,107	5,223	3,540	3,014	75,070	887	4,349	2,313
85 Oregon Health Sciences U	131,486	0	0	0	0	126,445	5,041	0	0
86 Rockefeller U, The	124,138	0	4,066	0	2,993	117,079	0	0	0
87 UT Houston Hlth Sci Ctr	119,587	0	0	0	0	119,587	0	0	0
88 U CA Santa Barbara	118,154	38,902	23,459	28,009	5,367	9,176	2,222	8,974	2,045
89 Clemson University	114,903	35,374	6,996	1,094	3,816	62,486	130	4,518	489
90 Arizona State University	108,117	36,612	19,021	11,532	4,901	15,949	5,438	9,591	5,073
Total, 1st 90 institutions	23,286,148	3,412,744	2,007,752	1,164,119	912,523	14,218,497	351,881	909,272	309,360
91 Tufts University	105,783	7,342	3,838	1,438	1,399	83,227	2,933	5,606	0
92 Florida State University	105,095	11,673	43,626	14,303	5,415	12,779	4,234	13,065	0
93 Washington State U	104,796	16,660	4,881	1,896	436	70,714	217	9,450	542
94 U of South Carolina	104,398	23,095	12,921	15,868	10,408	24,371	4,013	9,540	4,182
95 U TX Hlth Sci Ctr San Ant	103,824	0	0	0	0	103,824	0	0	0
96 Utah State University	103,161	41,074	4,464	8,453	1,611	35,626	1,067	2,578	8,288
97 U of Alaska Fairbanks	102,500	6,681	37,044	21,644	12,899	19,887	0	4,345	0
98 U TX Med Br at Galveston	97,896	1,490	0	0	0	96,406	0	0	0
99 U MA Worcester	97,587	0	0	0	0	97,587	0	0	0
100 U MA Amherst	97,052	17,476	20,094	8,707	13,344	28,833	4,788	1,651	2,159
Total, 1st 100 institutions	24,308,240	3,538,235	2,134,620	1,236,428	958,035	14,791,751	369,133	955,507	324,531

See explanatory information and SOURCE at end of table.

**Table B-39. R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
101 Auburn University	92,612	23,859	3,083	488	398	56,273	453	2,084	5,974
102 Kansas State University	91,790	15,935	8,062	790	1,270	59,728	1,109	3,288	1,608
103 Tulane University	89,785	6,697	2,784	1,448	730	70,301	358	2,097	5,370
104 Thomas Jefferson U	89,626	0	0	0	0	89,626	0	0	0
105 Oklahoma State University	88,285	16,752	6,282	2,139	1,886	49,269	415	7,796	3,746
106 Virginia Commonwealth U	88,220	3,259	5,877	83	485	75,323	2,081	1,112	0
107 Wake Forest University	86,840	0	621	0	158	85,675	0	0	386
108 U CA Riverside	83,580	9,995	7,627	11,115	764	47,470	1,867	3,337	1,405
109 SUNY at Albany	82,792	0	10,423	6,379	953	55,159	2,489	7,389	0
110 Woods Hole Oceanogr Inst	81,547	16,637	0	64,910	0	0	0	0	0
Total, 1st 110 institutions	25,183,317	3,631,369	2,179,379	1,323,780	964,679	15,380,575	377,905	982,610	343,020
111 Brown University	81,476	9,958	8,806	5,370	12,085	38,501	2,143	4,613	0
112 New Mexico State Univ	79,695	46,790	4,574	2,940	4,574	19,165	435	722	495
113 Dartmouth College	78,874	8,691	2,888	751	2,156	59,803	3,100	667	818
114 University of Delaware	74,711	23,730	11,038	9,960	3,113	20,227	1,725	4,918	0
115 U of New Hampshire	72,108	12,462	2,277	36,418	820	13,556	1,300	4,781	494
116 U of Arkansas Main	70,817	12,460	5,560	2,291	478	47,239	238	2,551	0
117 Medical Col of Wisconsin	70,581	0	0	0	0	70,581	0	0	0
118 George Washington U	69,300	8,536	1,974	43	16,276	23,310	790	8,827	9,544
119 Texas Tech University	68,224	17,363	5,437	8,139	2,117	28,017	253	5,946	952
120 Rush University	68,189	0	0	0	0	67,122	1,067	0	0
Total, 1st 120 institutions	25,917,292	3,771,359	2,221,933	1,389,692	1,006,298	15,768,096	388,956	1,015,635	355,323
121 West Virginia University	66,130	20,560	4,295	5,671	2,002	32,628	275	16	683
122 Montana St U Bozeman	65,324	9,369	10,712	455	236	39,492	0	2,721	2,339
123 Med U of South Carolina	65,243	0	0	0	0	65,243	0	0	0
124 University of Louisville	64,062	4,887	2,706	211	1,793	49,922	1,819	2,724	0
125 University of Vermont	63,391	1,279	1,107	413	1,392	56,067	938	206	1,989
126 University of Idaho	61,347	9,838	2,073	4,656	1,059	39,812	725	2,102	1,082
127 U of Nevada Reno	56,248	4,268	5,895	6,552	660	26,014	1,110	1,379	10,370
128 U CA Santa Cruz	56,212	3,119	23,844	13,839	2,620	9,270	1,142	2,335	43
129 San Diego St University	55,002	6,710	2,813	3,166	2,984	20,629	6,160	5,893	6,647
130 U of Maine	54,821	7,326	9,028	15,214	1,062	18,431	465	3,041	254
Total, 1st 130 institutions	26,525,072	3,838,715	2,284,406	1,439,869	1,020,106	16,125,604	401,590	1,036,052	378,730
131 Temple University	52,466	1,145	4,676	168	503	30,675	4,360	10,939	0
132 U of Nebraska Med Ctr	51,547	0	0	0	0	51,547	0	0	0
133 North Dakota State U	50,063	1,133	3,844	137	1,073	37,124	475	4,769	1,508
134 U of Arkansas Medical Sci	49,074	0	0	0	0	49,074	0	0	0
135 University of Houston	48,902	18,081	8,571	1,239	4,054	11,520	2,954	2,088	395
136 U of Rhode Island	48,135	3,758	851	23,212	183	11,311	3,434	497	4,889
137 NJ Inst of Technology	47,895	18,274	1,382	0	1,009	0	0	0	27,230
138 Brandeis University	47,658	0	4,666	0	1,546	20,159	1,712	19,575	0
139 U of Central Florida	47,646	9,157	13,656	8,250	514	3,566	1,026	5,204	6,273
140 Medical Col of Georgia	45,596	0	0	0	0	45,596	0	0	0
Total, 1st 140 institutions	27,014,054	3,890,263	2,322,052	1,472,875	1,028,988	16,386,176	415,551	1,079,124	419,025
141 U Mississippi, All Camp	44,927	3,328	10,177	0	224	25,918	206	1,216	3,858
142 University of Wyoming	43,094	4,972	3,164	7,968	568	17,512	305	1,097	7,508
143 Rice University	41,840	9,031	11,909	1,354	13,399	5,364	374	409	0
144 MCP Hahnemann University	41,670	0	0	0	0	41,267	403	0	0
145 U of Alabama Huntsville	41,274	17,154	8,185	5,241	8,562	490	0	100	1,542
146 Rensselaer Polytech Inst	40,762	31,036	5,061	1,209	1,799	1,067	13	113	464
147 Syracuse University	39,468	10,653	5,358	1,184	12,058	4,502	1,865	2,784	1,064
148 University of Dayton	39,345	36,325	1,432	219	99	337	300	5	628
149 Naval Postgrad School	37,502	9,989 <i>i</i>	2,393 <i>i</i>	9,038 <i>i</i>	7,651 <i>i</i>	0 <i>i</i>	0 <i>i</i>	5,108 <i>i</i>	3,323 <i>i</i>
150 Georgia State University	36,600	0	3,758	569	1,087	9,256	7,182	14,748	0
Total, 1st 150 institutions	27,420,536	4,012,751	2,373,489	1,499,657	1,074,435	16,491,889	426,199	1,104,704	437,412

See explanatory information and SOURCE at end of table.

**Table B-39. R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
151 S Illinois U Carbondale	36,354	4,760	1,530	691	655	23,401	536	2,293	2,488
152 University of Oregon	35,934	966	7,267	2,170	3,538	16,949	2,525	2,519	0
153 Northeastern University	35,340	11,680	12,507	13	1,851	6,838	1,281	1,170	0
154 U PR Mayaguez Campus	34,683	7,398	2,396	3,642	470	19,339	0	233	1,205
155 Florida International U	34,649	14,641	3,667	6,372	2,303	3,372	430	3,864	0
156 University of Notre Dame	34,524	9,449	15,252	0	1,596	5,801	1,355	537	534
157 Col of William & Mary	33,299	0	5,126	23,938	1,134	1,515	355	1,231	0
158 U of LA Lafayette	32,692	6,613	966	327	4,251	18,167	214	906	1,248
159 CA St U Long Beach	32,551	2,675	1,307	533	73	13,224	6,187	8,552	0
160 University of Alabama, The	31,847	17,058	3,280	2,399	2,834	2,365	1,346	2,140	425
Total, 1st 160 institutions	27,762,409	4,087,991	2,426,787	1,539,742	1,093,140	16,602,860	440,428	1,128,149	443,312
161 SUNY Hlth Sci Ctr Brklyn	31,626	0	0	0	0	31,626	0	0	0
162 U MD Ctr for Environ Sci	31,605	0	0	31,605	0	0	0	0	0
163 C R Drew U of Med & Sci	31,045	0	0	0	0	31,045	0	0	0
164 Saint Louis University	31,002	0	30	570	137	29,888	64	0	313
165 Loyola U of Chicago	30,034	0	2,155	30	88	25,087	1,227	1,447	0
166 U MD Biotechnology Inst	29,946	0	0	7,442	0	22,504	0	0	0
167 Univ of Montana, The	29,590	0	1,238	450	2,005	20,509	185	2,586	2,617
168 Wright State University	29,092	3,216	2,151	384	4,465	17,350	1,169	180	177
169 Boston College	27,767	0	7,638	450	12,182	2,876	417	4,204	0
170 Univ of Memphis, The	27,381	2,908	961	4,095	1,212	2,833	9,375	4,748	1,249
Total, 1st 170 institutions	28,061,497	4,094,115	2,440,960	1,584,768	1,113,229	16,786,578	452,865	1,141,314	447,668
171 Howard University	27,254	1,772	3,925	97	2,530	16,400	360	2,119	51
172 Michigan Tech University	27,204	18,387	1,636	1,813	768	4,160	0	209	231
173 George Mason University	26,793	6,286	405	5,059	1,436	4,485	1,903	7,219	0
174 SUNY Col Env Sci Frstry	26,663	9,412e	2,080e	2,746e	0e	12,345e	0e	80e	0e
175 U MD Baltimore County	26,044	8,198	3,756	5,373	977	4,777	740	2,223	0
176 U of Missouri Rolla	25,968	19,698	4,368	1,057	670	156	4	5	10
177 Desert Research Institute	25,877	0	0	19,454	0	0	0	0	6,423
178 TX A&M U Sys Hlth Sci Ctr	25,736	0	0	0	0	25,719	0	17	0
179 Lehigh University	25,506	19,503	3,158	1,247	362	1,075	126	35	0
180 Old Dominion University	25,058	11,712	1,420	5,788	1,562	3,349	673	554	0
Total, 1st 180 institutions	28,323,600	4,189,083	2,461,708	1,627,402	1,121,534	16,859,044	456,671	1,153,775	454,383
181 Drexel University	24,876	15,828	1,583	452	2,519	527	927	3,040	0
182 Loma Linda University	24,369	0	0	0	0	21,488	0	826	2,055
183 U of Nevada Las Vegas	24,215	3,062	4,687	10,579	794	3,248	54	1,791	0
184 Unif Svcs U of Hlth Sci	23,987	0	0	0	0	23,987	0	0	0
185 Ohio University	23,767	10,487	3,872	753	291	5,650	968	900	846
186 NM Inst Mining & Tech	23,636	14,393	2,151	6,535	216	308	33	0	0
187 New York Medical College	23,348	0	0	0	0	23,348	0	0	0
188 Eastern VA Med School	23,299	0	0	0	0	23,299	0	0	0
189 Colorado School of Mines	21,795	13,878	6,318	961	580	0	0	58	0
190 Florida A&M University	21,612	3,111	1,780	2,274	1,781	12,442	0	224	0
Total, 1st 190 institutions	28,558,504	4,249,842	2,482,099	1,648,956	1,127,715	16,973,341	458,653	1,160,614	457,284

See explanatory information and SOURCE at end of table.

**Table B-39. R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 5 of 5

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
191 U PR Med Sci Campus	21,373	0	0	0	0	21,373	0	0	0
192 San Jose State University	21,005e	5,770e	1,881e	9,427e	328e	598e	2,938e	63e	0e
193 U TX at El Paso	20,877	8,322	1,546	4,423	1,309	3,340	807	1,130	0
194 U WI-Milwaukee	20,010	3,390	3,854	3,675	1,166	2,117	590	5,042	176
195 U of Missouri Kansas City	19,647	44	959	116	1,301	14,979	554	1,059	635
196 Florida Atlantic U	19,535	11,325	739	2,829	1,272	307	1,636	1,142	285
197 University of Akron	19,495	6,039	8,279	133	426	797	100	3,721	0
198 U MA Lowell	19,334	7,124	4,754	1,855	680	2,205	724	1,348	644
199 OR Grad Inst Sci & Tech	18,856	3,613	3,414	3,582	8,194	0	0	53	0
200 SUNY at Binghamton	18,661	5,547	2,485	848	1,018	2,141	2,991	3,537	94
Total, 1st 200 institutions	28,757,297	4,301,016	2,510,010	1,675,844	1,143,409	17,021,198	468,993	1,177,709	459,118
Total, all other sampled institutions	1,305,074	249,299	195,897	92,916	75,690	458,655	47,372	118,196	67,049

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-40. Federally financed R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 1 of 5

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	17,493,473	2,562,937	1,912,089	1,131,279	810,243	10,059,880	350,024	490,137	176,884
1 Johns Hopkins U ¹	793,266	247,231	95,181	35,596	93,316	305,404	3,453	8,019	5,066
2 U of Washington	389,622	24,906	20,168	58,356	7,899	268,355	8,716	1,222	0
3 Stanford University	367,127	91,593	48,463	6,029	16,245	199,299	3,830	1,668	0
4 University of Michigan	364,033	86,675	18,693	5,482	5,834	200,273	4,337	42,739	0
5 U CA San Diego	326,037	24,534	25,391	72,813	39,338	155,250	4,370	4,327	14
6 U of Pennsylvania	312,434	9,651	22,163	92	8,699	259,136	2,564	8,585	1,544
7 MA Institute of Tech	306,668	106,362	89,453	20,410	27,459	55,109	1,008	1,954	4,913
8 University of Colorado	300,394	23,231	63,975	56,172	7,101	136,720	6,284	5,427	1,484
9 Columbia U in City of NY	283,163	13,068	25,462	46,838	6,578	185,106	2,865	3,216	30
10 Harvard University	281,699	4,009	29,920	12,362	3,455	213,775	4,059	14,119	0
Total, 1st 10 institutions	3,724,443	631,260	438,869	314,150	215,924	1,978,427	41,486	91,276	13,051
11 U WI-Madison	278,629	41,315	31,742	17,784	7,846	148,172	17,657	14,113	0
12 U CA Los Angeles	274,162	29,689	29,115	8,514	8,616	188,919	6,501	2,796	12
13 Washington University	254,148	4,120	7,848	2,757	6,817	228,233	1,469	2,904	0
14 U CA San Francisco	248,878	0	9,033	0	0	239,282	0	563	0
15 Yale University	232,019	4,704	15,835	2,317	2,569	202,801	2,698	1,095	0
16 University of Minnesota	229,958	24,515	18,442	5,940	9,164	163,831	5,175	2,891	0
17 Cornell University	229,872	30,977	53,842	2,098	11,670	125,344	2,083	3,858	0
18 University of Pittsburgh	228,155	6,595	10,273	483	2,675	198,076	3,865	4,800	1,388
19 Pennsylvania State U	226,074	99,076	27,124	10,886	6,664	68,343	6,049	5,221	2,711
20 U of Southern California	210,872	34,857	7,862	9,513	48,514	103,260	3,394	3,009	463
Total, 1st 20 institutions	6,137,210	907,108	649,985	374,442	320,459	3,644,688	90,377	132,526	17,625
21 U CA Berkeley	208,338	56,757	53,882	3,734	5,541	76,937	4,459	5,613	1,415
22 Duke University	204,180	11,358	11,171	4,638	3,344	159,656	3,089	10,924	0
23 U of NC Chapel Hill	194,794	0	13,796	6,118	6,271	150,606	3,370	14,633	0
24 U of IL Urbana-Champaign	193,490	57,385	33,653	10,468	42,478	37,004	5,512	3,858	3,132
25 Baylor Col of Medicine	193,249	0	0	0	0	193,249	0	0	0
26 University of Arizona	187,161	29,305	50,078	6,209	5,612	89,978	0	5,979	0
27 U TX at Austin	178,889	65,769	41,510	10,450	28,669	24,953	2,980	4,416	142
28 California Inst of Tech	176,177	25,010	109,631	8,910	1,140	27,468	0	219	3,799
29 U of Alabama Birmingham	175,309	3,843	2,286	0	354	162,927	5,763	136	0
30 University of Rochester	150,593	40,942	12,455	671	2,557	88,295	4,761	912	0
Total, 1st 30 institutions	7,999,390	1,197,477	978,447	425,640	416,425	4,655,761	120,311	179,216	26,113
31 Case Western Reserve U	150,586	17,301	4,297	339	228	125,924	466	2,031	0
32 Northwestern University	150,238	30,492	14,565	642	2,813	96,823	1,836	2,725	342
33 Texas A&M University	149,639	31,008	11,732	61,397	4,618	37,616	1,583	1,685	0
34 Emory University	144,914	0	5,658	0	652	137,489	631	484	0
35 U CA Davis	141,740	12,693	12,936	2,265	2,335	109,978	1,004	529	0
36 University of Chicago	140,872	0	31,905	5,111	3,105	97,251	1,383	2,117	0
37 U of Iowa	140,764	9,534	12,384	673	1,022	112,862	2,252	1,991	46
38 U MD at College Park	136,605	40,494	34,162	4,604	12,894	11,573	2,394	30,484	0
39 Boston University	133,730	15,274	12,004	2,918	2,146	88,405	3,295	1,231	8,457
40 Ohio State University	132,219	21,302	12,728	3,953	2,940	79,507	3,422	7,992	375
Total, 1st 40 institutions	9,420,697	1,375,575	1,130,818	507,542	449,178	5,553,189	138,577	230,485	35,333
41 Vanderbilt University	129,986	8,667	10,673	207	731	103,565	2,264	3,879	0
42 Georgia Institute of Tech	126,164	81,862	8,759	9,687	16,642	3,319	1,806	1,905	2,184
43 University of Utah	124,344	15,561	10,264	3,453	11,814	81,091	1,637	524	0
44 University of Florida	120,374	23,973	12,162	1,924	4,556	72,971	3,591	1,197	0
45 University of Virginia	119,243	18,543	10,516	4,814	3,713	78,287	2,572	798	0
46 New York University	117,163	0	3,897	96	8,466	93,890	7,874	2,013	927
47 University of Cincinnati	110,475	11,604	2,360	51	35	94,624	123	1,675	3
48 Oregon Health Sciences U	109,165	0	0	0	0	104,185	4,980	0	0
49 U TX SW Med Ctr at Dallas	109,165	0	0	0	0	109,165	0	0	0
50 Indiana University	107,577	571	17,177	957	2,562	74,949	6,090	4,821	450
Total, 1st 50 institutions	10,594,353	1,536,356	1,206,626	528,731	497,697	6,369,235	169,514	247,297	38,897

See explanatory information and SOURCE at end of table.

**Table B-40. Federally financed R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 University of Miami	106,633	944	2,134	25,388	129	68,262	6,725	3,051	0
52 U of IL Chicago	101,943	9,333	5,412	234	3,925	76,932	2,567	2,503	1,037
53 Yeshiva University	101,631	0	0	0	0	101,631	0	0	0
54 Colorado State University	101,429	8,162	6,338	12,451	1,392	62,328	2,530	1,558	6,670
55 University of New Mexico	100,442	21,979	8,668	1,735	2,680	38,214	4,232	2,382	20,552
56 Georgetown University	98,836	0	3,980	167	144	92,084	0	2,440	21
57 Mt Sinai Sch Med	98,188	0	0	0	0	98,188	0	0	0
58 Michigan State University	97,112	5,913	25,026	602	2,390	51,477	2,514	9,070	120
59 SUNY at Stony Brook	96,641	8,098	16,751	11,745	4,750	51,701	2,394	1,145	57
60 SUNY at Buffalo	96,410	16,121	4,448	303	2,232	67,966	3,514	1,826	0
Total, 1st 60 institutions	11,593,618	1,606,906	1,279,383	581,356	515,339	7,078,018	193,990	271,272	67,354
61 Univ of Hawaii at Manoa	95,419	6,222	14,039	30,503	333	38,123	201	1,700	4,298
62 Purdue University	92,010	31,300	12,804	2,683	4,528	35,919	1,634	2,993	149
63 U of MD Baltimore	91,212	0	0	0	0	91,212	0	0	0
64 Carnegie Mellon U	91,191	24,754	6,276	1,092	40,204	7,760	4,095	6,750	260
65 Louisiana State U System	89,007	18,937	9,796	9,649	609	47,916	341	1,753	6
66 U CA Irvine	88,274	5,590	11,410	1,982	4,011	61,177	2,358	1,746	0
67 U TX MD Anderson Cnrc Ctr	81,872	0	2,670	0	1,239	77,963	0	0	0
68 U CA Santa Barbara	80,754	28,834	17,170	17,649	3,673	6,476	1,830	4,984	138
69 Oregon State University	80,398	8,651	4,553	28,487	1,785	35,793	19	622	488
70 Rutgers the State U NJ	79,711	15,101	12,579	8,947	6,911	28,157	3,262	4,687	67
Total, 1st 70 institutions	12,463,466	1,746,295	1,370,680	682,348	578,632	7,508,514	207,730	296,507	72,760
71 UT Houston Hlth Sci Ctr	79,665	0	0	0	0	79,665	0	0	0
72 NC State University	77,328	25,259	9,498	5,291	7,227	27,299	538	1,275	941
73 U Med & Dent of NJ	75,318	0	0	0	0	75,318	0	0	0
74 Princeton University	74,681	21,220	18,039	8,035	4,528	15,571	3,743	3,545	0
75 University of Kentucky	73,858	12,253	5,029	379	1,544	50,133	645	1,258	2,617
76 U of Tennessee System	72,059	11,971	6,445	5,444	3,026	43,256	20	1,693	204
77 VA Polytech Inst & St U	71,127	26,084	4,766	14,804	2,533	20,481	1,057	1,402	0
78 University of Kansas	68,950	5,570	6,345	2,547	1,161	46,879	952	1,983	3,513
79 Thomas Jefferson U	67,448	0	0	0	0	67,448	0	0	0
80 Woods Hole Oceanogr Inst	67,036	12,801	0	54,235	0	0	0	0	0
Total, 1st 80 institutions	13,190,936	1,861,453	1,420,802	773,083	598,651	7,934,564	214,685	307,663	80,035
81 University of Connecticut	66,144	5,228	3,592	4,573	710	46,875	4,219	947	0
82 Wake Forest University	65,585	0	332	0	157	65,094	0	0	2
83 U of Missouri Columbia	65,420	8,669	2,484	548	657	45,496	2,863	4,703	0
84 U TX Hlth Sci Ctr San Ant	65,251	0	0	0	0	65,251	0	0	0
85 Tufts University	64,677	3,935	2,703	211	1,023	54,306	1,312	1,187	0
86 Wayne State University	64,320	3,557	5,114	30	725	52,637	1,915	342	0
87 U MA Worcester	64,212	0	0	0	0	64,212	0	0	0
88 University of Georgia	62,678	738	3,017	4,845	1,359	47,290	2,771	2,658	0
89 SUNY at Albany	62,059	0	1,407	3,207	769	50,670	1,767	4,239	0
90 U TX Med Br at Galveston	61,357	608	0	0	0	60,749	0	0	0
Total, 1st 90 institutions	13,832,639	1,884,188	1,439,451	786,497	604,051	8,487,144	229,532	321,739	80,037
91 University of Oklahoma	60,542	4,122	8,894	14,805	203	25,532	4,632	2,354	0
92 Iowa State University	59,976	16,863	4,714	2,071	3,462	22,669	86	9,414	697
93 Utah State University	57,378	31,180	3,529	3,053	869	16,066	451	811	1,419
94 New Mexico State Univ	57,073	39,179	3,556	2,145	3,520	7,511	393	566	203
95 Florida State University	56,830	7,159	21,881	10,330	3,203	6,237	2,877	5,143	0
96 Dartmouth College	56,369	7,112	2,266	454	1,800	41,537	2,431	308	461
97 Medical Col of Wisconsin	55,034	0	0	0	0	55,034	0	0	0
98 Mississippi State U	53,808	25,329	1,315	2,522	855	21,170	73	1,357	1,187
99 Virginia Commonwealth U	52,137	1,629	3,332	18	196	45,047	1,417	498	0
100 Tulane University	52,080	3,300	1,337	1,329	564	40,122	106	1,656	3,666
Total, 1st 100 institutions	14,393,866	2,020,061	1,490,275	823,224	618,723	8,768,069	241,998	343,846	87,670

See explanatory information and SOURCE at end of table.

**Table B-40. Federally financed R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
101 U of South Carolina	51,872	14,923	8,076	6,655	2,272	14,074	2,890	2,779	203
102 U of South Florida	50,557	4,615	545	11,782	125	29,878	2,875	737	0
103 Brown University	49,943	5,626	4,771	3,377	7,658	26,011	1,400	1,100	0
104 Arizona State University	49,935	13,978	9,177	10,167	2,311	7,705	3,678	1,847	1,072
105 George Washington U	49,627	7,195	1,736	39	15,835	14,073	619	2,403	7,727
106 Washington State U	48,441	9,878	4,090	1,614	292	29,653	191	2,461	262
107 U of Alaska Fairbanks	46,605	3,234	21,678	10,884	186	8,412	0	2,211	0
108 Rockefeller U, The	45,211	0	2,357	0	745	42,109	0	0	0
109 U MA Amherst	44,697	6,800	10,292	3,385	8,834	11,795	3,449	122	20
110 Med U of South Carolina	41,432	0	0	0	0	41,432	0	0	0
Total, 1st 110 institutions	14,872,186	2,086,310	1,552,997	871,127	656,981	8,993,211	257,100	357,506	96,954
111 University of Vermont	39,861	622	803	253	964	35,632	516	34	1,037
112 U of New Hampshire	38,921	4,789	1,474	24,122	542	4,476	1,118	1,933	467
113 U of Rhode Island	38,538	2,713	824	20,311	74	8,541	3,250	473	2,352
114 Temple University	38,213	920	4,072	150	342	23,947	2,962	5,820	0
115 U of Nebraska at Lincoln	37,831	4,400	5,504	7,264	1,210	14,269	186	3,324	1,674
116 University of Delaware	37,716	12,009	7,945	6,630	1,813	5,482	1,270	2,567	0
117 Naval Postgrad School	36,476 <i>i</i>	9,691 <i>i</i>	2,285 <i>i</i>	8,792 <i>i</i>	7,597 <i>i</i>	0 <i>i</i>	0 <i>i</i>	5,000 <i>i</i>	3,111 <i>i</i>
118 Rice University	35,144	6,057	9,784	1,354	12,911	4,415	339	284	0
119 Rush University	32,573	0	0	0	0	32,178	395	0	0
120 University of Dayton	31,717	29,831	1,279	177	49	176	205	0	0
Total, 1st 120 institutions	15,239,176	2,157,342	1,586,967	940,180	682,483	9,122,327	267,341	376,941	105,595
121 Auburn University	31,515	12,106	2,152	324	233	12,106	393	842	3,359
122 Clemson University	31,304	9,636	1,906	300	1,039	17,023	36	1,231	133
123 Kansas State University	31,185	5,611	6,605	189	659	15,941	577	1,022	581
124 University of Oregon	30,793	797	6,075	1,992	3,110	15,174	2,333	1,312	0
125 Montana St U Bozeman	30,564	4,797	8,079	292	184	14,484	0	1,232	1,496
126 U of Arkansas Medical Sci	29,962	0	0	0	0	29,962	0	0	0
127 Syracuse University	29,630	6,844	4,736	888	9,670	3,202	1,400	2,090	800
128 U Mississippi, All Camp	28,107	2,433	9,574	0	224	13,333	173	824	1,546
129 West Virginia University	28,013	8,668	2,605	2,180	408	13,420	128	6	598
130 MCP Hahnemann University	27,379	0	0	0	0	27,127	252	0	0
Total, 1st 130 institutions	15,537,628	2,208,234	1,628,699	946,345	698,010	9,284,099	272,633	385,500	114,108
131 University of Notre Dame	27,362	7,346	13,117	0	1,329	4,237	1,084	85	164
132 Northeastern University	26,916	8,250	11,091	13	1,296	5,057	935	274	0
133 Saint Louis University	26,453	0	13	458	137	25,809	36	0	0
134 Brandeis University	26,444	0	3,493	0	1,484	14,241	1,641	5,585	0
135 U of Nevada Reno	26,267	1,968	4,659	4,307	593	13,435	694	592	19
136 U CA Santa Cruz	25,959	2,189	9,449	5,864	1,861	5,308	480	801	7
137 U of Alabama Huntsville	25,939	8,964	5,626	4,261	5,892	169	0	26	1,001
138 Rensselaer Polytech Inst	25,555	17,616	4,402	1,064	1,512	694	5	106	156
139 Howard University	25,292	1,689	3,695	97	2,135	15,284	360	1,987	45
140 Oklahoma State University	24,770	6,465	2,158	620	524	11,709	130	1,965	1,199
Total, 1st 140 institutions	15,798,585	2,262,721	1,686,402	963,029	714,773	9,380,042	277,998	396,921	116,699
141 U of Maine	24,412	2,553	6,459	6,399	296	6,885	269	1,551	0
142 University of Idaho	23,014	4,563	954	2,685	841	12,180	605	678	508
143 SUNY Hlth Sci Ctr Brklyn	22,860	0	0	0	0	22,860	0	0	0
144 San Diego St University	22,802	1,768	1,954	1,655	1,624	10,332	4,137	1,317	15
145 C R Drew U of Med & Sci	21,969	0	0	0	0	21,969	0	0	0
146 Texas Tech University	21,481	6,178	1,643	3,054	1,084	6,837	133	2,318	234
147 University of Houston	21,365	5,721	3,897	106	2,595	6,703	1,715	620	8
148 U CA Riverside	21,085	2,976	5,578	2,520	307	7,696	1,652	345	11
149 U of Arkansas Main	20,778	6,504	2,858	872	195	10,059	0	290	0
150 Loyola U of Chicago	20,695	0	1,778	20	55	16,720	1,142	980	0
Total, 1st 150 institutions	16,019,046	2,292,984	1,711,523	980,340	721,770	9,502,283	287,651	405,020	117,475

See explanatory information and SOURCE at end of table.

**Table B-40. Federally financed R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
151 George Mason University	20,669	5,513	360	4,970	1,282	2,987	1,766	3,791	0
152 Florida International U	20,296	8,576	2,148	3,732	1,349	1,975	252	2,264	0
153 U MD Baltimore County	20,244	5,107	3,227	4,654	824	4,614	385	1,433	0
154 Desert Research Institute	19,923	0	0	14,685	0	0	0	0	5,238
155 U of Nebraska Med Ctr	19,878	0	0	0	0	19,878	0	0	0
156 University of Alabama, The	19,486	11,227	1,980	1,654	429	1,675	1,258	1,117	146
157 Loma Linda University	18,811	0	0	0	0	15,930	0	826	2,055
158 Univ of Montana, The	18,378	0	1,004	392	1,140	13,772	147	1,821	102
159 New York Medical College	17,975	0	0	0	0	17,975	0	0	0
160 University of Louisville	17,713	1,504	1,146	33	68	13,668	982	312	0
Total, 1st 160 institutions	16,212,419	2,324,911	1,721,388	1,010,460	726,862	9,594,757	292,441	416,584	125,016
161 NJ Inst of Technology	17,381	3,358	693	0	664	0	0	0	12,666
162 Boston College	16,673	0	5,424	377	7,373	1,115	343	2,041	0
163 U PR Med Sci Campus	16,657	0	0	0	0	16,657	0	0	0
164 Michigan Tech University	16,650	10,041	1,219	1,501	640	3,157	0	92	0
165 University of Wyoming	16,556	1,337	1,716	3,873	354	7,787	208	492	789
166 U TX at El Paso	16,416	6,024	1,211	3,769	1,302	2,562	714	834	0
167 Florida A&M University	16,278	2,272	1,696	1,720	1,177	9,364	0	49	0
168 Clark Atlanta University	16,170	1,403	4,060	0	1,287	2,583	97	494	6,246
169 North Dakota State U	15,463	556	2,918	86	739	6,616	372	3,105	1,071
170 Morehouse School of Med	15,419	0	0	0	0	15,419	0	0	0
Total, 1st 170 institutions	16,376,082	2,349,902	1,740,325	1,021,786	740,398	9,660,017	294,175	423,691	145,788
171 Medical Col of Georgia	15,210	0	0	0	0	15,210	0	0	0
172 U Southern Mississippi	15,084	291	3,014	5,860	178	1,145	167	247	4,182
173 Old Dominion University	14,908	7,558	1,137	3,283	921	1,226	553	230	0
174 TX A&M U Sys Hlth Sci Ctr	14,321	0	0	0	0	14,314	0	7	0
175 Drexel University	14,292	9,795	1,137	452	1,198	353	178	1,179	0
176 U of North Dakota	13,880	6,094	918	1,618	102	4,438	0	328	382
177 U of Nevada Las Vegas	13,815	979	1,616	8,350	551	1,973	0	346	0
178 U of Central Florida	13,801	2,914	3,106	1,543	379	1,237	844	1,321	2,457
179 OR Grad Inst Sci & Tech	13,743	1,217	3,170	2,949	6,380	0	0	27	0
180 CUNY City College	13,059	2,832	4,995	542	1,417	2,892	363	18	0
Total, 1st 180 institutions	16,518,195	2,381,582	1,759,418	1,046,383	751,524	9,702,805	296,280	427,394	152,809
181 Col of William & Mary	13,031	0	3,140	7,847	974	615	119	336	0
182 CA St U Long Beach	12,964	14	1,044	406	0	2,089	3,550	5,861	0
183 Lehigh University	12,726	8,460	2,295	1,033	195	620	123	0	0
184 Wright State University	12,543	1,327	1,268	188	1,297	8,064	351	0	48
185 Florida Atlantic U	12,359	8,496	624	133	701	85	1,414	733	173
186 U of LA Lafayette	12,164	2,101	375	88	1,303	8,190	0	77	30
187 Eastern VA Med School	12,114	0	0	0	0	12,114	0	0	0
188 Georgia State University	12,090	0	1,572	136	218	4,154	3,204	2,806	0
189 Colorado School of Mines	11,995	5,195	5,842	479	421	0	0	58	0
190 U PR Mayaguez Campus	11,837	2,666	1,469	1,826	390	5,414	0	25	47
Total, 1st 190 institutions	16,642,018	2,409,841	1,777,047	1,058,519	757,023	9,744,150	305,041	437,290	153,107

See explanatory information and SOURCE at end of table.

**Table B-40. Federally financed R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
191 San Jose State University	11,825e	3,077e	1,052e	4,363e	122e	476e	2,698e	37e	0e
192 Ohio University	11,695	5,643	2,410	413	243	1,882	674	207	223
193 Mercer University	11,350	10,049	356	0	0	935	0	10	0
194 Portland State University	11,217	1,043	335	811	1,018	1,444	115	6,451	0
195 NC A&T State University	11,187	6,954	453	0	272	3,240	132	136	0
196 Univ of Memphis, The	11,177	981	279	924	652	669	5,143	2,524	5
197 U MD Biotechnology Inst	11,157	0	0	2,773	0	8,384	0	0	0
198 Unif Svcs U of Hlth Sci	11,023	0	0	0	0	11,023	0	0	0
199 Illinois Inst of Tech	10,926	3,465	916	0	230	5,832	483	0	0
200 U MD Ctr for Environ Sci	10,805	0	0	10,805	0	0	0	0	0
Total, 1st 200 institutions	16,754,380	2,441,053	1,782,848	1,078,608	759,560	9,778,035	314,286	446,655	153,335
Total, all other sampled institutions	739,093	121,884	129,241	52,671	50,683	281,845	35,738	43,482	23,549

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-41. Non-Federal R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	12,568,898	1,987,378	793,818	637,481	408,856	7,419,973	166,341	805,768	349,283
1 U CA Berkeley	310,176	64,000	36,424	3,398	2,267	142,191	2,759	36,095	23,042
2 U WI-Madison	275,732	29,978	14,936	10,217	4,428	193,607	5,580	16,970	16
3 U CA Los Angeles	256,664	16,745	15,920	6,379	4,022	179,111	2,511	30,119	1,857
4 Texas A&M University	247,629	87,486	12,399	23,933	2,375	108,984	1,169	5,542	5,741
5 Ohio State University	229,180	61,403	11,718	3,559	19,861	115,430	1,058	12,043	4,108
6 U CA Davis	223,049	22,504	5,247	7,693	1,384	182,525	505	3,120	71
7 Pennsylvania State U	201,501	63,719	15,337	9,510	2,964	78,997	5,178	11,308	14,488
8 NC State University	200,618	51,580	11,316	10,408	8,787	109,139	379	5,643	3,366
9 University of Georgia	195,798	6,867	7,051	9,149	6,256	132,985	4,861	28,629	0
10 U CA San Francisco	194,135	0	3,299	0	0	190,259	0	577	0
Total, 1st 10 institutions	2,334,482	404,282	133,647	84,246	52,344	1,433,228	24,000	150,046	52,689
11 University of Florida	193,318	23,540	7,843	1,906	2,553	147,617	1,531	8,328	0
12 U CA San Diego	192,522	22,126	8,261	42,373	11,939	100,247	994	5,341	1,241
13 University of Michigan	187,523	49,501	4,714	2,127	6,391	105,926	4,739	14,101	24
14 University of Minnesota	181,422	16,828	6,033	6,822	2,926	134,094	3,043	11,676	0
15 Cornell University	180,521	23,883	16,311	2,123	7,291	117,814	3,994	9,105	0
16 U of IL Urbana-Champaign	179,534	37,968	14,959	18,029	21,151	60,748	3,360	21,010	2,309
17 Georgia Institute of Tech	178,347	115,727	12,382	13,695	23,526	4,689	2,552	2,689	3,087
18 Louisiana State U System	162,226	22,691	7,683	22,016	2,813	99,379	320	6,578	746
19 University of Arizona	157,929	18,967	33,149	4,134	2,073	90,489	38	9,065	14
20 Duke University	152,445	3,891	2,117	2,918	743	138,488	556	3,732	0
Total, 1st 20 institutions	4,100,269	739,404	247,099	200,389	133,750	2,432,719	45,127	241,671	60,110
21 Rutgers the State U NJ	145,557	18,580	11,189	11,989	8,249	71,144	4,496	18,021	1,889
22 Purdue University	142,526	40,215	7,291	1,413	5,969	70,972	1,331	15,057	278
23 Baylor Col of Medicine	140,926	0	0	0	0	140,926	0	0	0
24 U of Washington	139,720	14,103	6,954	5,756	1,339	103,984	777	6,807	0
25 U of MD Baltimore	133,134	0	0	0	0	133,134	0	0	0
26 Michigan State University	130,622	12,435	10,856	1,225	1,803	91,713	1,150	9,454	1,986
27 University of Kentucky	128,534	19,173	3,039	167	516	95,768	154	1,916	7,801
28 VA Polytech Inst & St U	121,545	40,879	5,457	1,982	2,341	63,784	1,085	6,017	0
29 Indiana University	120,160	2,043	12,505	2,113	3,354	56,591	2,983	24,450	16,121
30 MA Institute of Tech	119,631	42,920	2,745	1,599	12,022	18,119	349	6,339	35,538
Total, 1st 30 institutions	5,422,624	929,752	307,135	226,633	169,343	3,278,854	57,452	329,732	123,723
31 U of Pennsylvania	117,955	3,664	2,617	755	1,419	84,252	339	22,257	2,652
32 U MD at College Park	115,824	35,597	19,556	1,798	7,738	25,953	839	24,343	0
33 Iowa State University	115,582	30,186	4,518	1,732	6,505	56,665	557	6,428	8,991
34 Washington University	108,068	3,234	2,687	1,617	2,260	95,799	194	1,313	964
35 Johns Hopkins U	107,890	4,762	2,303	1,962	1,404	80,503	183	2,569	14,204
36 U TX MD Anderson Cnrc Ctr ..	100,324	0	1,037	0	3,903	95,384	0	0	0
37 U of Nebraska at Lincoln	98,192	17,965	5,384	5,446	4,009	50,016	1,715	7,181	6,476
38 U of Iowa	96,180	13,387	3,601	1,352	487	70,237	928	5,979	209
39 Northwestern University	95,536	14,193	5,843	217	2,116	56,420	1,116	5,535	10,096
40 University of Connecticut	94,940	22,066	3,505	3,686	1,151	50,950	3,657	7,605	2,320
Total, 1st 40 institutions	6,473,115	1,074,806	358,186	245,198	200,335	3,945,033	66,980	412,942	169,635
41 U of South Florida	94,840	12,083	2,011	7,415	413	65,878	4,667	2,353	20
42 U TX at Austin	93,922	34,525	14,828	13,684	10,692	14,172	443	5,201	377
43 U of IL Chicago	93,896	9,674	2,774	1,462	1,481	65,271	1,588	6,936	4,710
44 U of Missouri Columbia	93,441	13,149	2,731	540	779	66,900	1,652	7,690	0
45 Wayne State University	92,494	8,598	6,569	1	612	68,064	1,181	5,016	2,453
46 U of Tennessee System	91,631	20,957	4,488	3,886	5,565	51,818	157	3,528	1,232
47 SUNY at Buffalo	91,282	16,180	5,342	983	6,446	56,202	1,476	4,475	178
48 University of Oklahoma	90,360	11,041	6,655	14,353	3,022	38,452	9,295	7,542	0
49 U of Southern California	89,573	11,462	2,315	4,881	4,618	59,496	571	4,631	1,599
50 Stanford University	87,653	15,880	4,759	2,027	2,503	56,953	754	4,777	0
Total, 1st 50 institutions	7,392,207	1,228,355	410,658	294,430	236,466	4,488,239	88,764	465,091	180,204

See explanatory information and SOURCE at end of table.

**Table B-41. Non-Federal R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Clemson University	83,599	25,738	5,090	794	2,777	45,463	94	3,287	356
52 U TX SW Med Ctr at Dallas	80,051	0	0	0	0	80,051	0	0	0
53 University of Kansas	79,720	6,833	3,862	8,372	3,143	48,438	272	3,728	5,072
54 Rockefeller U, The	78,927	0	1,709	0	2,248	74,970	0	0	0
55 Mississippi State U	78,695	12,778	3,908	1,018	2,159	53,900	814	2,992	1,126
56 U of NC Chapel Hill	74,278	0	3,784	5,264	3,158	54,040	340	7,692	0
57 U CA Irvine	70,163	9,928	5,109	1,391	2,067	46,594	955	3,748	371
58 SUNY at Stony Brook	66,666	7,476	8,046	5,634	3,109	37,857	1,663	2,014	867
59 University of Pittsburgh	66,654	5,263	1,641	54	517	55,536	681	2,950	12
60 Univ of Hawaii at Manoa	65,881	2,512	12,660	20,950	101	25,539	256	1,911	1,952
Total, 1st 60 institutions	8,136,841	1,298,883	456,467	337,907	255,745	5,010,627	93,839	493,413	189,960
61 U Med & Dent of NJ	65,633	0	0	0	0	65,633	0	0	0
62 New York University	65,042	0	1,303	826	3,009	53,599	2,035	3,553	717
63 Yale University	64,687	3,062	2,995	213	1,412	54,671	1,464	870	0
64 Oklahoma State University	63,515	10,287	4,124	1,519	1,362	37,560	285	5,831	2,547
65 University of Utah	63,317	9,732	5,189	587	3,156	43,166	199	1,288	0
66 U CA Riverside	62,495	7,019	2,049	8,595	457	39,774	215	2,992	1,394
67 University of Cincinnati	61,610	12,523	2,719	162	431	40,919	662	1,706	2,488
68 Emory University	61,156	0	2,697	3	309	55,003	336	2,808	0
69 Auburn University	61,097	11,753	931	164	165	44,167	60	1,242	2,615
70 Kansas State University	60,605	10,324	1,457	601	611	43,787	532	2,266	1,027
Total, 1st 70 institutions	8,765,998	1,363,583	479,931	350,577	266,657	5,488,906	99,627	515,969	200,748
71 Oregon State University	60,353	5,252	926	5,453	514	46,692	2	1,490	24
72 Princeton University	60,194	19,806	9,061	4,911	4,287	7,614	1,516	12,999	0
73 Harvard University	60,111	393	2,610	1,506	449	37,471	328	17,354	0
74 Arizona State University	58,182	22,634	9,844	1,365	2,590	8,244	1,760	7,744	4,001
75 U of Alabama Birmingham	58,152	2,992	1,030	0	189	53,377	470	94	0
76 Washington State U	56,355	6,782	791	282	144	41,061	26	6,989	280
77 U of Alaska Fairbanks	55,895	3,447	15,366	10,760	12,713	11,475	0	2,134	0
78 University of Virginia	55,279	8,367	2,717	878	1,199	39,684	430	1,681	323
79 University of Colorado	53,134	7,791	7,966	6,597	1,047	26,412	1,515	1,733	73
80 U of South Carolina	52,526	8,172	4,845	9,213	8,136	10,297	1,123	6,761	3,979
Total, 1st 80 institutions	9,336,179	1,449,219	535,087	391,542	297,925	5,771,233	106,797	574,948	209,428
81 U MA Amherst	52,355	10,676	9,802	5,322	4,510	17,038	1,339	1,529	2,139
82 Mt Sinai Sch Med	51,658	0	0	0	0	51,658	0	0	0
83 Colorado State University	50,850	7,290	2,131	1,951	1,073	33,770	149	1,164	3,322
84 U of Arkansas Main	50,039	5,956	2,702	1,419	283	37,180	238	2,261	0
85 Florida State University	48,265	4,514	21,745	3,973	2,212	6,542	1,357	7,922	0
86 Carnegie Mellon U	46,789	12,138	1,666	1,946	18,391	6,818	1,785	2,443	1,602
87 Texas Tech University	46,743	11,185	3,794	5,085	1,033	21,180	120	3,628	718
88 University of Rochester	46,742	5,552	1,006	36	93	36,276	3,214	475	90
89 California Inst of Tech	46,489	18,310	9,033	4,936	3,533	4,464	0	220	5,993
90 University of Louisville	46,349	3,383	1,560	178	1,725	36,254	837	2,412	0
Total, 1st 90 institutions	9,822,458	1,528,223	588,526	416,388	330,778	6,022,413	115,836	597,002	223,292
91 Utah State University	45,783	9,894	935	5,400	742	19,560	616	1,767	6,869
92 Case Western Reserve U	42,471	8,217	2,199	99	146	27,852	216	3,742	0
93 Vanderbilt University	41,940	3,556	2,192	62	139	34,169	410	1,412	0
94 Tufts University	41,106	3,407	1,135	1,227	376	28,921	1,621	4,419	0
95 UT Houston Hlth Sci Ctr	39,922	0	0	0	0	39,922	0	0	0
96 University of Miami	39,162	400	134	2,965	50	35,210	168	235	0
97 U TX Hlth Sci Ctr San Ant	38,573	0	0	0	0	38,573	0	0	0
98 University of Idaho	38,333	5,275	1,119	1,971	218	27,632	120	1,424	574
99 West Virginia University	38,117	11,892	1,690	3,491	1,594	19,208	147	10	85
100 Yeshiva University	37,987	0	0	0	0	37,987	0	0	0
Total, 1st 100 institutions	10,225,852	1,570,864	597,930	431,603	334,043	6,331,447	119,134	610,011	230,820

See explanatory information and SOURCE at end of table.

**Table B-41. Non-Federal R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
101 Tulane University	37,705	3,397	1,447	119	166	30,179	252	441	1,704
102 U CA Santa Barbara	37,400	10,068	6,289	10,360	1,694	2,700	392	3,990	1,907
103 University of Delaware	36,995	11,721	3,093	3,330	1,300	14,745	455	2,351	0
104 U TX Med Br at Galveston	36,539	882	0	0	0	35,657	0	0	0
105 Columbia U in City of NY	36,530	3,325	642	2,360	385	27,175	201	2,197	245
106 Virginia Commonwealth U	36,083	1,630	2,545	65	289	30,276	664	614	0
107 Rush University	35,616	0	0	0	0	34,944	672	0	0
108 Montana St U Bozeman	34,760	4,572	2,633	163	52	25,008	0	1,489	843
109 North Dakota State U	34,600	577	926	51	334	30,508	103	1,664	437
110 Georgetown University	34,375	0	989	19	16	27,527	93	5,060	671
Total, 1st 110 institutions	10,586,455	1,607,036	616,494	448,070	338,279	6,590,166	121,966	627,817	236,627
111 U of Central Florida	33,845	6,243	10,550	6,707	135	2,329	182	3,883	3,816
112 University of New Mexico	33,538	4,485	2,332	218	324	8,066	1,640	4,192	12,281
113 U MA Worcester	33,375	0	0	0	0	33,375	0	0	0
114 U of New Hampshire	33,187	7,673	803	12,296	278	9,080	182	2,848	27
115 San Diego St University	32,200	4,942	859	1,511	1,360	10,297	2,023	4,576	6,632
116 U of Nebraska Med Ctr	31,669	0	0	0	0	31,669	0	0	0
117 Brown University	31,533	4,332	4,035	1,993	4,427	12,490	743	3,513	0
118 NJ Inst of Technology	30,514	14,916	689	0	345	0	0	0	14,564
119 U of Maine	30,409	4,773	2,569	8,815	766	11,546	196	1,490	254
120 Medical Col of Georgia	30,386	0	0	0	0	30,386	0	0	0
Total, 1st 120 institutions	10,907,111	1,654,400	638,331	479,610	345,914	6,739,404	126,932	648,319	274,201
121 U CA Santa Cruz	30,253	930	14,395	7,975	759	3,962	662	1,534	36
122 U of Nevada Reno	29,981	2,300	1,236	2,245	67	12,579	416	787	10,351
123 University of Chicago	29,806	0	3,629	552	137	24,436	923	129	0
124 University of Houston	27,537	12,360	4,674	1,133	1,459	4,817	1,239	1,468	387
125 University of Wyoming	26,538	3,635	1,448	4,095	214	9,725	97	605	6,719
126 S Illinois U Carbondale	26,224	3,539	1,177	525	586	16,485	121	1,859	1,932
127 Georgia State University	24,510	0	2,186	433	869	5,102	3,978	11,942	0
128 Med U of South Carolina	23,811	0	0	0	0	23,811	0	0	0
129 University of Vermont	23,530	657	304	160	428	20,435	422	172	952
130 U PR Mayaguez Campus	22,846	4,732	927	1,816	80	13,925	0	208	1,158
Total, 1st 130 institutions	11,172,147	1,682,553	668,307	498,544	350,513	6,874,681	134,790	667,023	295,736
131 New Mexico State Univ	22,622	7,611	1,018	795	1,054	11,654	42	156	292
132 Dartmouth College	22,505	1,579	622	297	356	18,266	669	359	357
133 SUNY Col Env Sci Frstry	22,331	8,888e	1,759e	2,542e	0e	9,087e	0e	55e	0e
134 Oregon Health Sciences U	22,321	0	0	0	0	22,260	61	0	0
135 Thomas Jefferson U	22,178	0	0	0	0	22,178	0	0	0
136 Wake Forest University	21,255	0	289	0	1	20,581	0	0	384
137 Brandeis University	21,214	0	1,173	0	62	5,918	71	13,990	0
138 U MD Ctr for Environ Sci	20,800	0	0	20,800	0	0	0	0	0
139 SUNY at Albany	20,733	0	9,016	3,172	184	4,489	722	3,150	0
140 U of LA Lafayette	20,528	4,512	591	239	2,948	9,977	214	829	1,218
Total, 1st 140 institutions	11,388,634	1,705,143	682,775	526,389	355,118	6,999,091	136,569	685,562	297,987
141 Boston University	20,299	2,181	565	452	153	15,326	54	703	865
142 Col of William & Mary	20,268	0	1,986	16,091	160	900	236	895	0
143 George Washington U	19,673	1,341	238	4	441	9,237	171	6,424	1,817
144 CA St U Long Beach	19,587	2,661	263	127	73	11,135	2,637	2,691	0
145 U of Arkansas Medical Sci	19,112	0	0	0	0	19,112	0	0	0
146 U MD Biotechnology Inst	18,789	0	0	4,669	0	14,120	0	0	0
147 U Mississippi, All Camp	16,820	895	603	0	0	12,585	33	392	2,312
148 Wright State University	16,549	1,889	883	196	3,168	9,286	818	180	129
149 Univ of Memphis, The	16,204	1,927	682	3,171	560	2,164	4,232	2,224	1,244
150 U of Missouri Rolla	16,164	12,537	2,052	779	625	152	4	5	10
Total, 1st 150 institutions	11,572,099	1,728,574	690,047	551,878	360,298	7,093,108	144,754	699,076	304,364

See explanatory information and SOURCE at end of table.

**Table B-41. Non-Federal R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
151 Medical Col of Wisconsin	15,547	0	0	0	0	15,547	0	0	0
152 U of Alabama Huntsville	15,335	8,190	2,559	980	2,670	321	0	74	541
153 Rensselaer Polytech Inst	15,207	13,420	659	145	287	373	8	7	308
154 NM Inst Mining & Tech	14,984	8,481	1,139	4,986	156	189	33	0	0
155 Woods Hole Oceanogr Inst	14,511	3,836	0	10,675	0	0	0	0	0
156 Florida International U	14,353	6,065	1,519	2,640	954	1,397	178	1,600	0
157 MCP Hahnemann University ..	14,291	0	0	0	0	14,140	151	0	0
158 Temple University	14,253	225	604	18	161	6,728	1,398	5,119	0
159 Unif Svcs U of Hlth Sci	12,964	0	0	0	0	12,964	0	0	0
160 Lehigh University	12,780	11,043	863	214	167	455	3	35	0
Total, 1st 160 institutions	11,716,324	1,779,834	697,390	571,536	364,693	7,145,222	146,525	705,911	305,213
161 University of Akron	12,414	4,345	5,772	122	107	429	31	1,608	0
162 University of Alabama, The	12,361	5,831	1,300	745	2,405	690	88	1,023	279
163 SUNY at Binghamton	12,342	4,241	1,998	304	956	1,584	1,218	1,947	94
164 U of Missouri Kansas City	12,157	44	589	93	534	9,040	464	760	633
165 Ohio University	12,072	4,844	1,462	340	48	3,768	294	693	623
166 U WI-Milwaukee	11,585	2,443	2,088	2,124	630	891	216	3,017	176
167 TX A&M U Sys Hlth Sci Ctr	11,415	0	0	0	0	11,405	0	10	0
168 Univ of Montana, The	11,212	0	234	58	865	6,737	38	765	2,515
169 Eastern VA Med School	11,185	0	0	0	0	11,185	0	0	0
170 Boston College	11,094	0	2,214	73	4,809	1,761	74	2,163	0
Total, 1st 170 institutions	11,834,161	1,801,582	713,047	575,395	375,047	7,192,712	148,948	717,897	309,533
171 Wichita State University	10,985	9,642	468	43	106	422	267	37	0
172 Drexel University	10,584	6,033	446	0	1,321	174	749	1,861	0
173 Michigan Tech University	10,554	8,346	417	312	128	1,003	0	117	231
174 U of Nevada Las Vegas	10,400	2,083	3,071	2,229	243	1,275	54	1,445	0
175 Creighton University	10,300	0	1	0	0	10,261	0	38	0
176 Old Dominion University	10,150	4,154	283	2,505	641	2,123	120	324	0
177 Syracuse University	9,838	3,809	622	296	2,388	1,300	465	694	264
178 Colorado School of Mines	9,800	8,683	476	482	159	0	0	0	0
179 CA St U Fresno	9,775	1,920	164	63	262	4,623	54	294	2,395
180 Western Michigan U	9,646	3,735	521	937	873	990	36	2,554	0
Total, 1st 180 institutions	11,936,193	1,849,987	719,516	582,262	381,168	7,214,883	150,693	725,261	312,423
181 U of Rhode Island	9,597	1,045	27	2,901	109	2,770	184	24	2,537
182 U MA Lowell	9,429	4,049	1,012	813	543	947	348	1,077	640
183 Loyola U of Chicago	9,339	0	377	10	33	8,367	85	467	0
184 South Dakota State U	9,336	404	68	384	6	8,146	0	328	0
185 San Jose State University	9,180e	2,693e	829e	5,064e	206e	122e	240e	26e	0e
186 C R Drew U of Med & Sci	9,076	0	0	0	0	9,076	0	0	0
187 SUNY Hlth Sci Ctr Brklyn	8,766	0	0	0	0	8,766	0	0	0
188 U MA Boston	8,680	23	209	934	71	1,506	54	5,637	246
189 U TX at Dallas	8,635	2,268	1,700	416	633	1,866	0	747	1,005
190 SUNY Upstate Med U	8,634	0	0	0	0	8,634	0	0	0
Total, 1st 190 institutions	12,026,865	1,860,469	723,738	592,784	382,769	7,265,083	151,604	733,567	316,851

See explanatory information and SOURCE at end of table.

**Table B-41. Non-Federal R&D expenditures at universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
191 Northeastern University	8,424	3,430	1,416	0	555	1,781	346	896	0
192 Miami University (OH)	8,000	283i	1,876i	113i	01	1,600i	279i	1,685i	2,164i
193 University of Dayton	7,628	6,494	153	42	50	161	95	5	628
194 Tennessee Tech U	7,426	6,525	217	10	65	567	30	12	0
195 University of Toledo	7,382	4,088	1,424	44	25	1,322	154	66	259
196 Polytechnic University	7,300	4,530	132	0	479	0	0	0	2,159
197 Florida Atlantic U	7,176	2,829	115	2,696	571	222	222	409	112
198 University of Notre Dame	7,162	2,103	2,135	0	267	1,564	271	452	370
199 Inst of Paper Sci & Tech	7,135e	4,159i	2,111i	0i	01	865i	0i	0i	0i
200 Stevens Inst of Tech	7,094	2,941	420	2,062	463	0	0	1,208	0
Total, 1st 200 institutions	12,101,592	1,897,851	733,737	597,751	385,244	7,273,165	153,001	738,300	322,543
Total, all other sampled institutions	467,306	89,527	60,081	39,730	23,612	146,808	13,340	67,468	26,740

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-42. R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 1 of 4

Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Total, all institutions	20,517,436	3,288,623	1,798,329	1,427,842	740,845	11,498,850	381,218	998,757	382,972
1 U WI-Madison	554,361	71,293	46,678	28,001	12,274	341,779	23,237	31,083	16
2 University of Michigan	551,556	136,176	23,407	7,609	12,225	306,199	9,076	56,840	24
3 U CA Los Angeles	530,826	46,434	45,035	14,893	12,638	368,030	9,012	32,915	1,869
4 U of Washington	529,342	39,009	27,122	64,112	9,238	372,339	9,493	8,029	0
5 U CA San Diego	518,559	46,660	33,652	115,186	51,277	255,497	5,364	9,668	1,255
6 U CA Berkeley	518,514	120,757	90,306	7,132	7,808	219,128	7,218	41,708	24,457
7 U CA San Francisco	443,013	0	12,332	0	0	429,541	0	1,140	0
8 Pennsylvania State U	427,575	162,795	42,461	20,396	9,628	147,340	11,227	16,529	17,199
9 University of Minnesota	411,380	41,343	24,475	12,762	12,090	297,925	8,218	14,567	0
10 Texas A&M University	397,268	118,494	24,131	85,330	6,993	146,600	2,752	7,227	5,741
Total, 1st 10 institutions	4,882,394	782,961	369,599	355,421	134,171	2,884,378	85,597	219,706	50,561
11 U of IL Urbana-Champaign	373,024	95,353	48,612	28,497	63,629	97,752	8,872	24,868	5,441
12 U CA Davis	364,789	35,197	18,183	9,958	3,719	292,503	1,509	3,649	71
13 Ohio State University	361,399	82,705	24,446	7,512	22,801	194,937	4,480	20,035	4,483
14 University of Colorado	353,528	31,022	71,941	62,769	8,148	163,132	7,799	7,160	1,557
15 University of Arizona	345,090	48,272	83,227	10,343	7,685	180,467	38	15,044	14
16 University of Florida	313,692	47,513	20,005	3,830	7,109	220,588	5,122	9,525	0
17 Georgia Institute of Tech	304,511	197,589	21,141	23,382	40,168	8,008	4,358	4,594	5,271
18 University of Pittsburgh	294,809	11,858	11,914	537	3,192	253,612	4,546	7,750	1,400
19 NC State University	277,946	76,839	20,814	15,699	16,014	136,438	917	6,918	4,307
20 U TX at Austin	272,811	100,294	56,338	24,134	39,361	39,125	3,423	9,617	519
Total, 1st 20 institutions	8,143,993	1,509,603	746,220	542,082	345,997	4,470,940	126,661	328,866	73,624
21 U of NC Chapel Hill	269,072	0	17,580	11,382	9,429	204,646	3,710	22,325	0
22 University of Georgia	258,476	7,605	10,068	13,994	7,615	180,275	7,632	31,287	0
23 U MD at College Park	252,429	76,091	53,718	6,402	20,632	37,526	3,233	54,827	0
24 Louisiana State U System	251,233	41,628	17,479	31,665	3,422	147,295	661	8,331	752
25 U of Iowa	236,944	22,921	15,985	2,025	1,509	183,099	3,180	7,970	255
26 Purdue University	234,536	71,515	20,095	4,096	10,497	106,891	2,965	18,050	427
27 U of Alabama Birmingham	233,461	6,835	3,316	0	543	216,304	6,233	230	0
28 Indiana University	227,737	2,614	29,682	3,070	5,916	131,540	9,073	29,271	16,571
29 Michigan State University	227,734	18,348	35,882	1,827	4,193	143,190	3,664	18,524	2,106
30 Rutgers the State U NJ	225,268	33,681	23,768	20,936	15,160	99,301	7,758	22,708	1,956
Total, 1st 30 institutions	10,560,883	1,790,841	973,793	637,479	424,913	5,921,007	174,770	542,389	95,691
31 U of MD Baltimore	224,346	0	0	0	0	224,346	0	0	0
32 University of Kentucky	202,392	31,426	8,068	546	2,060	145,901	799	3,174	10,418
33 U of IL Chicago	195,839	19,007	8,186	1,696	5,406	142,203	4,155	9,439	5,747
34 VA Polytech Inst & St U	192,672	66,963	10,223	16,786	4,874	84,265	2,142	7,419	0
35 U TX SW Med Ctr at Dallas	189,216	0	0	0	0	189,216	0	0	0
36 SUNY at Buffalo	187,692	32,301	9,790	1,286	8,678	124,168	4,990	6,301	178
37 University of Utah	187,661	25,293	15,453	4,040	14,970	124,257	1,836	1,812	0
38 U TX MD Anderson Cnrc Ctr	182,196	0	3,707	0	5,142	173,347	0	0	0
39 Iowa State University	175,558	47,049	9,232	3,803	9,967	79,334	643	15,842	9,688
40 University of Virginia	174,522	26,910	13,233	5,692	4,912	117,971	3,002	2,479	323
Total, 1st 40 institutions	12,472,977	2,039,790	1,051,685	671,328	480,922	7,326,015	192,337	588,855	122,045
41 University of Cincinnati	172,085	24,127	5,079	213	466	135,543	785	3,381	2,491
42 U of Tennessee System	163,690	32,928	10,933	9,330	8,591	95,074	177	5,221	1,436
43 SUNY at Stony Brook	163,307	15,574	24,797	17,379	7,859	89,558	4,057	3,159	924
44 Univ of Hawaii at Manoa	161,300	8,734	26,699	51,453	434	63,662	457	3,611	6,250
45 University of Connecticut	161,084	27,294	7,097	8,259	1,861	97,825	7,876	8,552	2,320
46 U of Missouri Columbia	158,861	21,818	5,215	1,088	1,436	112,396	4,515	12,393	0
47 U CA Irvine	158,437	15,518	16,519	3,373	6,078	107,771	3,313	5,494	371
48 Wayne State University	156,814	12,155	11,683	31	1,337	120,701	3,096	5,358	2,453
49 Colorado State University	152,279	15,452	8,469	14,402	2,465	96,098	2,679	2,722	9,992
50 University of Oklahoma	150,902	15,163	15,549	29,158	3,225	63,984	13,927	9,896	0
Total, 1st 50 institutions	14,071,736	2,228,553	1,183,725	806,014	514,674	8,308,627	233,219	648,642	148,282

See explanatory information and SOURCE at end of table.

**Table B-42. R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 2 of 4

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 University of Kansas	148,670	12,403	10,207	10,919	4,304	95,317	1,224	5,711	8,585
52 U of South Florida	145,397	16,698	2,556	19,197	538	95,756	7,542	3,090	20
53 U Med & Dent of NJ	140,951	0	0	0	0	140,951	0	0	0
54 Oregon State University	140,751	13,903	5,479	33,940	2,299	82,485	21	2,112	512
55 U of Nebraska at Lincoln	136,023	22,365	10,888	12,710	5,219	64,285	1,901	10,505	8,150
56 University of New Mexico	133,980	26,464	11,000	1,953	3,004	46,280	5,872	6,574	32,833
57 Mississippi State U	132,503	38,107	5,223	3,540	3,014	75,070	887	4,349	2,313
58 Oregon Health Sciences U	131,486	0	0	0	0	126,445	5,041	0	0
59 UT Houston Hlth Sci Ctr	119,587	0	0	0	0	119,587	0	0	0
60 U CA Santa Barbara	118,154	38,902	23,459	28,009	5,367	9,176	2,222	8,974	2,045
Total, 1st 60 institutions	15,419,238	2,397,395	1,252,537	916,282	538,419	9,163,979	257,929	689,957	202,740
61 Clemson University	114,903	35,374	6,996	1,094	3,816	62,486	130	4,518	489
62 Arizona State University	108,117	36,612	19,021	11,532	4,901	15,949	5,438	9,591	5,073
63 Florida State University	105,095	11,673	43,626	14,303	5,415	12,779	4,234	13,065	0
64 Washington State U	104,796	16,660	4,881	1,896	436	70,714	217	9,450	542
65 U of South Carolina	104,398	23,095	12,921	15,868	10,408	24,371	4,013	9,540	4,182
66 U TX Hlth Sci Ctr San Ant	103,824	0	0	0	0	103,824	0	0	0
67 Utah State University	103,161	41,074	4,464	8,453	1,611	35,626	1,067	2,578	8,288
68 U of Alaska Fairbanks	102,500	6,681	37,044	21,644	12,899	19,887	0	4,345	0
69 U TX Med Br at Galveston	97,896	1,490	0	0	0	96,406	0	0	0
70 U MA Worcester	97,587	0	0	0	0	97,587	0	0	0
Total, 1st 70 institutions	16,461,515	2,570,054	1,381,490	991,072	577,905	9,703,608	273,028	743,044	221,314
71 U MA Amherst	97,052	17,476	20,094	8,707	13,344	28,833	4,788	1,651	2,159
72 Auburn University	92,612	23,859	3,083	488	398	56,273	453	2,084	5,974
73 Kansas State University	91,790	15,935	8,062	790	1,270	59,728	1,109	3,288	1,608
74 Oklahoma State University	88,285	16,752	6,282	2,139	1,886	49,269	415	7,796	3,746
75 Virginia Commonwealth U	88,220	3,259	5,877	83	485	75,323	2,081	1,112	0
76 U CA Riverside	83,580	9,995	7,627	11,115	764	47,470	1,867	3,337	1,405
77 SUNY at Albany	82,792	0	10,423	6,379	953	55,159	2,489	7,389	0
78 New Mexico State Univ	79,695	46,790	4,574	2,940	4,574	19,165	435	722	495
79 University of Delaware	74,711	23,730	11,038	9,960	3,113	20,227	1,725	4,918	0
80 U of New Hampshire	72,108	12,462	2,277	36,418	820	13,556	1,300	4,781	494
Total, 1st 80 institutions	17,312,360	2,740,312	1,460,827	1,070,091	605,512	10,128,611	289,690	780,122	237,195
81 U of Arkansas Main	70,817	12,460	5,560	2,291	478	47,239	238	2,551	0
82 Texas Tech University	68,224	17,363	5,437	8,139	2,117	28,017	253	5,946	952
83 West Virginia University	66,130	20,560	4,295	5,671	2,002	32,628	275	16	683
84 Montana St U Bozeman	65,324	9,369	10,712	455	236	39,492	0	2,721	2,339
85 Med U of South Carolina	65,243	0	0	0	0	65,243	0	0	0
86 University of Louisville	64,062	4,887	2,706	211	1,793	49,922	1,819	2,724	0
87 University of Vermont	63,391	1,279	1,107	413	1,392	56,067	938	206	1,989
88 University of Idaho	61,347	9,838	2,073	4,656	1,059	39,812	725	2,102	1,082
89 U of Nevada Reno	56,248	4,268	5,895	6,552	660	26,014	1,110	1,379	10,370
90 U CA Santa Cruz	56,212	3,119	23,844	13,839	2,620	9,270	1,142	2,335	43
Total, 1st 90 institutions	17,949,358	2,823,455	1,522,456	1,112,318	617,869	10,522,315	296,190	800,102	254,653
91 San Diego St University	55,002	6,710	2,813	3,166	2,984	20,629	6,160	5,893	6,647
92 U of Maine	54,821	7,326	9,028	15,214	1,062	18,431	465	3,041	254
93 Temple University	52,466	1,145	4,676	168	503	30,675	4,360	10,939	0
94 U of Nebraska Med Ctr	51,547	0	0	0	0	51,547	0	0	0
95 North Dakota State U	50,063	1,133	3,844	137	1,073	37,124	475	4,769	1,508
96 U of Arkansas Medical Sci	49,074	0	0	0	0	49,074	0	0	0
97 University of Houston	48,902	18,081	8,571	1,239	4,054	11,520	2,954	2,088	395
98 U of Rhode Island	48,135	3,758	851	23,212	183	11,311	3,434	497	4,889
99 NJ Inst of Technology	47,895	18,274	1,382	0	1,009	0	0	0	27,230
100 U of Central Florida	47,646	9,157	13,656	8,250	514	3,566	1,026	5,204	6,273
Total, 1st 100 institutions	18,454,909	2,889,039	1,567,277	1,163,704	629,251	10,756,192	315,064	832,533	301,849

See explanatory information and SOURCE at end of table.

**Table B-42. R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 3 of 4

Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
101 Medical Col of Georgia	45,596	0	0	0	0	45,596	0	0	0
102 U Mississippi, All Camp	44,927	3,328	10,177	0	224	25,918	206	1,216	3,858
103 University of Wyoming	43,094	4,972	3,164	7,968	568	17,512	305	1,097	7,508
104 U of Alabama Huntsville	41,274	17,154	8,185	5,241	8,562	490	0	100	1,542
105 Naval Postgrad School	37,502i	9,989i	2,393i	9,038i	7,651i	0i	0i	5,108i	3,323i
106 Georgia State University	36,600	0	3,758	569	1,087	9,256	7,182	14,748	0
107 S Illinois U Carbondale	36,354	4,760	1,530	691	655	23,401	536	2,293	2,488
108 University of Oregon	35,934	966	7,267	2,170	3,538	16,949	2,525	2,519	0
109 U PR Mayaguez Campus	34,683	7,398	2,396	3,642	470	19,339	0	233	1,205
110 Florida International U	34,649	14,641	3,667	6,372	2,303	3,372	430	3,864	0
Total, 1st 110 institutions	18,845,522	2,952,247	1,609,814	1,199,395	654,309	10,918,025	326,248	863,711	321,773
111 Col of William & Mary	33,299	0	5,126	23,938	1,134	1,515	355	1,231	0
112 U of LA Lafayette	32,692	6,613	966	327	4,251	18,167	214	906	1,248
113 CA St U Long Beach	32,551	2,675	1,307	533	73	13,224	6,187	8,552	0
114 University of Alabama, The	31,847	17,058	3,280	2,399	2,834	2,365	1,346	2,140	425
115 SUNY Hlth Sci Ctr Brklyn	31,626	0	0	0	0	31,626	0	0	0
116 U MD Ctr for Environ Sci	31,605	0	0	31,605	0	0	0	0	0
117 U MD Biotechnology Inst	29,946	0	0	7,442	0	22,504	0	0	0
118 Univ of Montana, The	29,590	0	1,238	450	2,005	20,509	185	2,586	2,617
119 Wright State University	29,092	3,216	2,151	384	4,465	17,350	1,169	180	177
120 Univ of Memphis, The	27,381	2,908	961	4,095	1,212	2,833	9,375	4,748	1,249
Total, 1st 120 institutions	19,155,151	2,984,717	1,624,843	1,270,568	670,283	11,048,118	345,079	884,054	327,489
121 Michigan Tech University	27,204	18,387	1,636	1,813	768	4,160	0	209	231
122 George Mason University	26,793	6,286	405	5,059	1,436	4,485	1,903	7,219	0
123 SUNY Col Env Sci Frstry	26,663	9,412e	2,080e	2,746e	0e	12,345e	0e	80e	0e
124 U MD Baltimore County	26,044	8,198	3,756	5,373	977	4,777	740	2,223	0
125 U of Missouri Rolla	25,968	19,698	4,368	1,057	670	156	4	5	10
126 Desert Research Institute	25,877	0	0	19,454	0	0	0	0	6,423
127 TX A&M U Sys Hlth Sci Ctr	25,736	0	0	0	0	25,719	0	17	0
128 Old Dominion University	25,058	11,712	1,420	5,788	1,562	3,349	673	554	0
129 U of Nevada Las Vegas	24,215	3,062	4,687	10,579	794	3,248	54	1,791	0
130 Unif Svcs U of Hlth Sci	23,987	0	0	0	0	23,987	0	0	0
Total, 1st 130 institutions	19,412,696	3,061,472	1,643,195	1,322,437	676,490	11,130,344	348,453	896,152	334,153
131 Ohio University	23,767	10,487	3,872	753	291	5,650	968	900	846
132 NM Inst Mining & Tech	23,636	14,393	2,151	6,535	216	308	33	0	0
133 Colorado School of Mines	21,795	13,878	6,318	961	580	0	0	58	0
134 Florida A&M University	21,612	3,111	1,780	2,274	1,781	12,442	0	224	0
135 U PR Med Sci Campus	21,373	0	0	0	0	21,373	0	0	0
136 San Jose State University	21,005e	5,770e	1,881e	9,427e	328e	598e	2,938e	63e	0e
137 U TX at El Paso	20,877	8,322	1,546	4,423	1,309	3,340	807	1,130	0
138 U WI-Milwaukee	20,010	3,390	3,854	3,675	1,166	2,117	590	5,042	176
139 U of Missouri Kansas City	19,647	44	959	116	1,301	14,979	554	1,059	635
140 Florida Atlantic U	19,535	11,325	739	2,829	1,272	307	1,636	1,142	285
Total, 1st 140 institutions	19,625,953	3,132,192	1,666,295	1,353,430	684,734	11,191,458	355,979	905,770	336,095

See explanatory information and SOURCE at end of table.

**Table B-42. R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 4 of 4

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
141 University of Akron	19,495	6,039	8,279	133	426	797	100	3,721	0
142 U MA Lowell	19,334	7,124	4,754	1,855	680	2,205	724	1,348	644
143 SUNY at Binghamton	18,661	5,547	2,485	848	1,018	2,141	2,991	3,537	94
144 U Southern Mississippi	17,706	405	4,113	6,238	178	1,245	219	532	4,776
145 U of North Dakota	17,343	7,970	969	1,640	102	5,217	0	458	987
146 SUNY Upstate Med U	17,095	0	0	0	0	17,095	0	0	0
147 CUNY City College	17,059	4,388	6,253	1,109	1,423	3,327	363	196	0
148 South Dakota State U	16,784	942	555	669	17	14,114	0	487	0
149 Portland State University	16,494	2,186	626	1,117	1,414	1,870	137	9,095	49
150 Wichita State University	16,213	12,808	1,206	43	431	953	700	72	0
Total, 1st 150 institutions	19,802,137	3,179,601	1,695,535	1,367,082	690,423	11,240,422	361,213	925,216	342,645
Total, all other sampled institutions	715,299	109,022	102,794	60,760	50,422	258,428	20,005	73,541	40,327

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-43. Federally financed R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	10,637,880	1,627,303	1,137,958	852,540	427,826	5,855,905	247,827	365,028	123,493
1 U of Washington	389,622	24,906	20,168	58,356	7,899	268,355	8,716	1,222	0
2 University of Michigan	364,033	86,675	18,693	5,482	5,834	200,273	4,337	42,739	0
3 U CA San Diego	326,037	24,534	25,391	72,813	39,338	155,250	4,370	4,327	14
4 University of Colorado	300,394	23,231	63,975	56,172	7,101	136,720	6,284	5,427	1,484
5 U WI-Madison	278,629	41,315	31,742	17,784	7,846	148,172	17,657	14,113	0
6 U CA Los Angeles	274,162	29,689	29,115	8,514	8,616	188,919	6,501	2,796	12
7 U CA San Francisco	248,878	0	9,033	0	0	239,282	0	563	0
8 University of Minnesota	229,958	24,515	18,442	5,940	9,164	163,831	5,175	2,891	0
9 University of Pittsburgh	228,155	6,595	10,273	483	2,675	198,076	3,865	4,800	1,388
10 Pennsylvania State U	226,074	99,076	27,124	10,886	6,664	68,343	6,049	5,221	2,711
Total, 1st 10 institutions	2,865,942	360,536	253,956	236,430	95,137	1,767,221	62,954	84,099	5,609
11 U CA Berkeley	208,338	56,757	53,882	3,734	5,541	76,937	4,459	5,613	1,415
12 U of NC Chapel Hill	194,794	0	13,796	6,118	6,271	150,606	3,370	14,633	0
13 U of IL Urbana-Champaign	193,490	57,385	33,653	10,468	42,478	37,004	5,512	3,858	3,132
14 University of Arizona	187,161	29,305	50,078	6,209	5,612	89,978	0	5,979	0
15 U TX at Austin	178,889	65,769	41,510	10,450	28,669	24,953	2,980	4,416	142
16 U of Alabama Birmingham	175,309	3,843	2,286	0	354	162,927	5,763	136	0
17 Texas A&M University	149,639	31,008	11,732	61,397	4,618	37,616	1,583	1,685	0
18 U CA Davis	141,740	12,693	12,936	2,265	2,335	109,978	1,004	529	0
19 U of Iowa	140,764	9,534	12,384	673	1,022	112,862	2,252	1,991	46
20 U MD at College Park	136,605	40,494	34,162	4,604	12,894	11,573	2,394	30,484	0
Total, 1st 20 institutions	4,572,671	667,324	520,375	342,348	204,931	2,581,655	92,271	153,423	10,344
21 Ohio State University	132,219	21,302	12,728	3,953	2,940	79,507	3,422	7,992	375
22 Georgia Institute of Tech	126,164	81,862	8,759	9,687	16,642	3,319	1,806	1,905	2,184
23 University of Utah	124,344	15,561	10,264	3,453	11,814	81,091	1,637	524	0
24 University of Florida	120,374	23,973	12,162	1,924	4,556	72,971	3,591	1,197	0
25 University of Virginia	119,243	18,543	10,516	4,814	3,713	78,287	2,572	798	0
26 University of Cincinnati	110,475	11,604	2,360	51	35	94,624	123	1,675	3
27 Oregon Health Sciences U	109,165	0	0	0	0	104,185	4,980	0	0
28 U TX SW Med Ctr at Dallas	109,165	0	0	0	0	109,165	0	0	0
29 Indiana University	107,577	571	17,177	957	2,562	74,949	6,090	4,821	450
30 U of IL Chicago	101,943	9,333	5,412	234	3,925	76,932	2,567	2,503	1,037
Total, 1st 30 institutions	5,733,340	850,073	599,753	367,421	251,118	3,356,685	119,059	174,838	14,393
31 Colorado State University	101,429	8,162	6,338	12,451	1,392	62,328	2,530	1,558	6,670
32 University of New Mexico	100,442	21,979	8,668	1,735	2,680	38,214	4,232	2,382	20,552
33 Michigan State University	97,112	5,913	25,026	602	2,390	51,477	2,514	9,070	120
34 SUNY at Stony Brook	96,641	8,098	16,751	11,745	4,750	51,701	2,394	1,145	57
35 SUNY at Buffalo	96,410	16,121	4,448	303	2,232	67,966	3,514	1,826	0
36 Univ of Hawaii at Manoa	95,419	6,222	14,039	30,503	333	38,123	201	1,700	4,298
37 Purdue University	92,010	31,300	12,804	2,683	4,528	35,919	1,634	2,993	149
38 U of MD Baltimore	91,212	0	0	0	0	91,212	0	0	0
39 Louisiana State U System	89,007	18,937	9,796	9,649	609	47,916	341	1,753	6
40 U CA Irvine	88,274	5,590	11,410	1,982	4,011	61,177	2,358	1,746	0
Total, 1st 40 institutions	6,681,296	972,395	709,033	439,074	274,043	3,902,718	138,777	199,011	46,245
41 U TX MD Anderson Cnrc Ctr ..	81,872	0	2,670	0	1,239	77,963	0	0	0
42 U CA Santa Barbara	80,754	28,834	17,170	17,649	3,673	6,476	1,830	4,984	138
43 Oregon State University	80,398	8,651	4,553	28,487	1,785	35,793	19	622	488
44 Rutgers the State U NJ	79,711	15,101	12,579	8,947	6,911	28,157	3,262	4,687	67
45 UT Houston Hlth Sci Ctr	79,665	0	0	0	0	79,665	0	0	0
46 NC State University	77,328	25,259	9,498	5,291	7,227	27,299	538	1,275	941
47 U Med & Dent of NJ	75,318	0	0	0	0	75,318	0	0	0
48 University of Kentucky	73,858	12,253	5,029	379	1,544	50,133	645	1,258	2,617
49 U of Tennessee System	72,059	11,971	6,445	5,444	3,026	43,256	20	1,693	204
50 VA Polytech Inst & St U	71,127	26,084	4,766	14,804	2,533	20,481	1,057	1,402	0
Total, 1st 50 institutions	7,453,386	1,100,548	771,743	520,075	301,981	4,347,259	146,148	214,932	50,700

See explanatory information and SOURCE at end of table.

**Table B-43. Federally financed R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 University of Kansas	68,950	5,570	6,345	2,547	1,161	46,879	952	1,983	3,513
52 University of Connecticut	66,144	5,228	3,592	4,573	710	46,875	4,219	947	0
53 U of Missouri Columbia	65,420	8,669	2,484	548	657	45,496	2,863	4,703	0
54 U TX Hlth Sci Ctr San Ant	65,251	0	0	0	0	65,251	0	0	0
55 Wayne State University	64,320	3,557	5,114	30	725	52,637	1,915	342	0
56 U MA Worcester	64,212	0	0	0	0	64,212	0	0	0
57 University of Georgia	62,678	738	3,017	4,845	1,359	47,290	2,771	2,658	0
58 SUNY at Albany	62,059	0	1,407	3,207	769	50,670	1,767	4,239	0
59 U TX Med Br at Galveston	61,357	608	0	0	0	60,749	0	0	0
60 University of Oklahoma	60,542	4,122	8,894	14,805	203	25,532	4,632	2,354	0
Total, 1st 60 institutions	8,094,319	1,129,040	802,596	550,630	307,565	4,852,850	165,267	232,158	54,213
61 Iowa State University	59,976	16,863	4,714	2,071	3,462	22,669	86	9,414	697
62 Utah State University	57,378	31,180	3,529	3,053	869	16,066	451	811	1,419
63 New Mexico State Univ	57,073	39,179	3,556	2,145	3,520	7,511	393	566	203
64 Florida State University	56,830	7,159	21,881	10,330	3,203	6,237	2,877	5,143	0
65 Mississippi State U	53,808	25,329	1,315	2,522	855	21,170	73	1,357	1,187
66 Virginia Commonwealth U	52,137	1,629	3,332	18	196	45,047	1,417	498	0
67 U of South Carolina	51,872	14,923	8,076	6,655	2,272	14,074	2,890	2,779	203
68 U of South Florida	50,557	4,615	545	11,782	125	29,878	2,875	737	0
69 Arizona State University	49,935	13,978	9,177	10,167	2,311	7,705	3,678	1,847	1,072
70 Washington State U	48,441	9,878	4,090	1,614	292	29,653	191	2,461	262
Total, 1st 70 institutions	8,632,326	1,293,773	862,811	600,987	324,670	5,052,860	180,198	257,771	59,256
71 U of Alaska Fairbanks	46,605	3,234	21,678	10,884	186	8,412	0	2,211	0
72 U MA Amherst	44,697	6,800	10,292	3,385	8,834	11,795	3,449	122	20
73 Med U of South Carolina	41,432	0	0	0	0	41,432	0	0	0
74 University of Vermont	39,861	622	803	253	964	35,632	516	34	1,037
75 U of New Hampshire	38,921	4,789	1,474	24,122	542	4,476	1,118	1,933	467
76 U of Rhode Island	38,538	2,713	824	20,311	74	8,541	3,250	473	2,352
77 Temple University	38,213	920	4,072	150	342	23,947	2,962	5,820	0
78 U of Nebraska at Lincoln	37,831	4,400	5,504	7,264	1,210	14,269	186	3,324	1,674
79 University of Delaware	37,716	12,009	7,945	6,630	1,813	5,482	1,270	2,567	0
80 Naval Postgrad School	36,476 <i>i</i>	9,691 <i>i</i>	2,285 <i>i</i>	8,792 <i>i</i>	7,597 <i>i</i>	0 <i>i</i>	0 <i>i</i>	5,000 <i>i</i>	3,111 <i>i</i>
Total, 1st 80 institutions	9,032,616	1,338,951	917,688	682,778	346,232	5,206,846	192,949	279,255	67,917
81 Auburn University	31,515	12,106	2,152	324	233	12,106	393	842	3,359
82 Clemson University	31,304	9,636	1,906	300	1,039	17,023	36	1,231	133
83 Kansas State University	31,185	5,611	6,605	189	659	15,941	577	1,022	581
84 University of Oregon	30,793	797	6,075	1,992	3,110	15,174	2,333	1,312	0
85 Montana St U Bozeman	30,564	4,797	8,079	292	184	14,484	0	1,232	1,496
86 U of Arkansas Medical Sci	29,962	0	0	0	0	29,962	0	0	0
87 U Mississippi, All Camp	28,107	2,433	9,574	0	224	13,333	173	824	1,546
88 West Virginia University	28,013	8,668	2,605	2,180	408	13,420	128	6	598
89 U of Nevada Reno	26,267	1,968	4,659	4,307	593	13,435	694	592	19
90 U CA Santa Cruz	25,959	2,189	9,449	5,864	1,861	5,308	480	801	7
Total, 1st 90 institutions	9,326,285	1,387,156	968,792	698,226	354,543	5,357,032	197,763	287,117	75,656

See explanatory information and SOURCE at end of table.

**Table B-43. Federally financed R&D expenditures at public universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
91 U of Alabama Huntsville	25,939	8,964	5,626	4,261	5,892	169	0	26	1,001
92 Oklahoma State University	24,770	6,465	2,158	620	524	11,709	130	1,965	1,199
93 U of Maine	24,412	2,553	6,459	6,399	296	6,885	269	1,551	0
94 University of Idaho	23,014	4,563	954	2,685	841	12,180	605	678	508
95 SUNY Hlth Sci Ctr Brklyn	22,860	0	0	0	0	22,860	0	0	0
96 San Diego St University	22,802	1,768	1,954	1,655	1,624	10,332	4,137	1,317	15
97 Texas Tech University	21,481	6,178	1,643	3,054	1,084	6,837	133	2,318	234
98 University of Houston	21,365	5,721	3,897	106	2,595	6,703	1,715	620	8
99 U CA Riverside	21,085	2,976	5,578	2,520	307	7,696	1,652	345	11
100 U of Arkansas Main	20,778	6,504	2,858	872	195	10,059	0	290	0
Total, 1st 100 institutions	9,554,791	1,432,848	999,919	720,398	367,901	5,452,462	206,404	296,227	78,632
Total, all other sampled institutions	1,083,089	194,455	138,039	132,142	59,925	403,443	41,423	68,801	44,861

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-44. R&D expenditures at private universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
Total, all institutions	9,544,935	1,261,692	907,578	340,918	478,254	5,981,003	135,147	297,148	143,195
1 Johns Hopkins U ¹	901,156	251,993	97,484	37,558	94,720	385,907	3,636	10,588	19,270
2 Stanford University	454,780	107,473	53,222	8,056	18,748	256,252	4,584	6,445	0
3 U of Pennsylvania	430,389	13,315	24,780	847	10,118	343,388	2,903	30,842	4,196
4 MA Institute of Tech	426,299	149,282	92,198	22,009	39,481	73,228	1,357	8,293	40,451
5 Cornell University	410,393	54,860	70,153	4,221	18,961	243,158	6,077	12,963	0
6 Washington University	362,216	7,354	10,535	4,374	9,077	324,032	1,663	4,217	964
7 Duke University	356,625	15,249	13,288	7,556	4,087	298,144	3,645	14,656	0
8 Harvard University	341,810	4,402	32,530	13,868	3,904	251,246	4,387	31,473	0
9 Baylor Col of Medicine	334,175	0	0	0	0	334,175	0	0	0
10 Columbia U in City of NY	319,693	16,393	26,104	49,198	6,963	212,281	3,066	5,413	275
Total, 1st 10 institutions	4,337,536	620,321	420,294	147,687	206,059	2,721,811	31,318	124,890	65,156
11 U of Southern California	300,445	46,319	10,177	14,394	53,132	162,756	3,965	7,640	2,062
12 Yale University	296,706	7,766	18,830	2,530	3,981	257,472	4,162	1,965	0
13 Northwestern University	245,774	44,685	20,408	859	4,929	153,243	2,952	8,260	10,438
14 California Inst of Tech	222,666	43,320	118,664	13,846	4,673	31,932	0	439	9,792
15 Emory University	206,070	0	8,355	3	961	192,492	967	3,292	0
16 University of Rochester	197,335	46,494	13,461	707	2,650	124,571	7,975	1,387	90
17 Case Western Reserve U	193,057	25,518	6,496	438	374	153,776	682	5,773	0
18 New York University	182,205	0	5,200	922	11,475	147,489	9,909	5,566	1,644
19 Vanderbilt University	171,926	12,223	12,865	269	870	137,734	2,674	5,291	0
20 University of Chicago	170,678	0	35,534	5,663	3,242	121,687	2,306	2,246	0
Total, 1st 20 institutions	6,524,398	846,646	670,284	187,318	292,346	4,204,963	66,910	166,749	89,182
21 Boston University	154,029	17,455	12,569	3,370	2,299	103,731	3,349	1,934	9,322
22 Mt Sinai Sch Med	149,846	0	0	0	0	149,846	0	0	0
23 University of Miami	145,795	1,344	2,268	28,353	179	103,472	6,893	3,286	0
24 Yeshiva University	139,618	0	0	0	0	139,618	0	0	0
25 Carnegie Mellon U	137,980	36,892	7,942	3,038	58,595	14,578	5,880	9,193	1,862
26 Princeton University	134,875	41,026	27,100	12,946	8,815	23,185	5,259	16,544	0
27 Georgetown University	133,211	0	4,969	186	160	119,611	93	7,500	692
28 Rockefeller U, The	124,138	0	4,066	0	2,993	117,079	0	0	0
29 Tufts University	105,783	7,342	3,838	1,438	1,399	83,227	2,933	5,606	0
30 Tulane University	89,785	6,697	2,784	1,448	730	70,301	358	2,097	5,370
Total, 1st 30 institutions	7,839,458	957,402	735,820	238,097	367,516	5,129,611	91,675	212,909	106,428
31 Thomas Jefferson U	89,626	0	0	0	0	89,626	0	0	0
32 Wake Forest University	86,840	0	621	0	158	85,675	0	0	386
33 Woods Hole Oceanogr Inst	81,547	16,637	0	64,910	0	0	0	0	0
34 Brown University	81,476	9,958	8,806	5,370	12,085	38,501	2,143	4,613	0
35 Dartmouth College	78,874	8,691	2,888	751	2,156	59,803	3,100	667	818
36 Medical Col of Wisconsin	70,581	0	0	0	0	70,581	0	0	0
37 George Washington U	69,300	8,536	1,974	43	16,276	23,310	790	8,827	9,544
38 Rush University	68,189	0	0	0	0	67,122	1,067	0	0
39 Brandeis University	47,658	0	4,666	0	1,546	20,159	1,712	19,575	0
40 Rice University	41,840	9,031	11,909	1,354	13,399	5,364	374	409	0
Total, 1st 40 institutions	8,555,389	1,010,255	766,684	310,525	413,136	5,589,752	100,861	247,000	117,176
41 MCP Hahnemann University ..	41,670	0	0	0	0	41,267	403	0	0
42 Rensselaer Polytech Inst	40,762	31,036	5,061	1,209	1,799	1,067	13	113	464
43 Syracuse University	39,468	10,653	5,358	1,184	12,058	4,502	1,865	2,784	1,064
44 University of Dayton	39,345	36,325	1,432	219	99	337	300	5	628
45 Northeastern University	35,340	11,680	12,507	13	1,851	6,838	1,281	1,170	0
46 University of Notre Dame	34,524	9,449	15,252	0	1,596	5,801	1,355	537	534
47 C R Drew U of Med & Sci	31,045	0	0	0	0	31,045	0	0	0
48 Saint Louis University	31,002	0	30	570	137	29,888	64	0	313
49 Loyola U of Chicago	30,034	0	2,155	30	88	25,087	1,227	1,447	0
50 Boston College	27,767	0	7,638	450	12,182	2,876	417	4,204	0
Total, 1st 50 institutions	8,906,346	1,109,398	816,117	314,200	442,946	5,738,460	107,786	257,260	120,179

See explanatory information and SOURCE at end of table.

**Table B-44. R&D expenditures at private universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total	Engineering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psychology	Social sciences	Other sciences
51 Howard University	27,254	1,772	3,925	97	2,530	16,400	360	2,119	51
52 Lehigh University	25,506	19,503	3,158	1,247	362	1,075	126	35	0
53 Drexel University	24,876	15,828	1,583	452	2,519	527	927	3,040	0
54 Loma Linda University	24,369	0	0	0	0	21,488	0	826	2,055
55 New York Medical College	23,348	0	0	0	0	23,348	0	0	0
56 Eastern VA Med School	23,299	0	0	0	0	23,299	0	0	0
57 OR Grad Inst Sci & Tech	18,856	3,613	3,414	3,582	8,194	0	0	53	0
58 Mercer University	18,138	13,639	2,098	0	69	2,300	22	10	0
59 Brigham Young University	17,237	6,251	3,163	447	1,381	3,415	488	1,868	224
60 Clark Atlanta University	16,891	1,479	4,092	0	1,293	2,616	393	549	6,469
Total, 1st 60 institutions	9,126,120	1,171,483	837,550	320,025	459,294	5,832,928	110,102	265,760	128,978
61 Morehouse School of Med	16,889	0	0	0	0	16,889	0	0	0
62 Stevens Inst of Tech	15,879	8,010	1,660	2,942	776	0	0	2,491	0
63 Creighton University	15,841	0	252	87	0	15,464	0	38	0
64 Polytechnic University	15,500	8,109	168	0	1,402	0	0	0	5,821
65 Illinois Inst of Tech	13,734	4,443	1,203	0	262	7,142	684	0	0
66 Albany Medical College	11,522	0	0	0	0	11,522	0	0	0
67 Inst of Paper Sci & Tech	10,533e	5,310i	4,358i	0i	0i	865i	0i	0i	0i
68 Worcester Polytech Inst	10,315	8,543	570	0	1,058	142	0	2	0
69 University of Tulsa	10,054	5,839	1,671	854	408	1,080	129	73	0
70 Southern Methodist U	9,713	2,345	1,244	2,344	1,118	1,669	163	450	380
Total, 1st 70 institutions	9,256,100	1,214,082	848,676	326,252	464,318	5,887,701	111,078	268,814	135,179
71 Meharry Medical College	9,460e	0e	0e	320e	7e	9,133e	0e	0e	0e
72 Catholic U of America	9,329	1,371	6,628	0	0	499	476	349	6
73 Hampton University	9,323	1,266	3,826	3,687	345	0	0	199	0
74 Tuskegee University	8,893	907	166	0	0	6,024	0	1,796	0
75 Teachers Col, Columbia U	8,561	0	0	0	417	660	2,992	4,492	0
76 University of Denver	8,383	1,568	2,835	12	420	910	1,916	431	291
77 Clarkson University	7,751	5,313	2,001	0	296	69	72	0	0
78 Marquette University	7,653	2,804	1,222	0	330	2,164	137	996	0
79 Finch U Hlth Sci Chicago	7,587	0	0	0	0	7,000	587	0	0
80 Alfred University	6,442	6,442	0	0	0	0	0	0	0
Total, 1st 80 institutions	9,339,482	1,233,753	865,354	330,271	466,133	5,914,160	117,258	277,077	135,476
81 Florida Inst of Tech	6,058	1,651	1,044	1,052	1,035	1,030	246	0	0
82 Harvey Mudd College	5,699e	1,541i	865i	58i	206i	2,461i	41i	236i	291i
83 U Ctrl Del Caribe Esc Med	5,677	0	0	0	0	5,677	0	0	0
84 Wesleyan University	5,673	0	2,232	177	66	1,806	1,097	295	0
85 Villanova University	5,280	3,345	1,345	60	150	300	80	0	0
86 New School University	5,209	0	0	0	0	661	101	4,447	0
87 Rose-Hulman Inst of Tech	4,994	3,691	659	0	644	0	0	0	0
88 Wellesley College	4,943i	0i	972i	0i	225i	2,696i	0i	1,050i	0i
89 Rochester Inst of Tech	4,755	472	2,311	448	0	1,480	0	0	44
90 Fordham University	3,584	0	114	102	2	780	1,234	1,352	0
Total, 1st 90 institutions	9,391,354	1,244,453	874,896	332,168	468,461	5,931,051	120,057	284,457	135,811

See explanatory information and SOURCE at end of table.

**Table B-44. R&D expenditures at private universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
91 Xavier University of LA	3,425	0	677	0	0	1,919	0	0	829
92 Ponce School of Medicine	3,403	0	0	0	0	3,403	0	0	0
93 Fisk University	3,401	0	3,326	0	75	0	0	0	0
94 Baylor University	3,307	1	1,067	284	95	340	4	110	1,406
95 Texas Christian U	3,050	171	750	8	27	37	2,043	14	0
96 Nova Southeastern U	2,919	0	0	1,571	0	197	1,151	0	0
97 Clark University	2,908	0	867	1,484	5	190	330	32	0
98 Morehouse College	2,853e	0e	293e	0e	63e	1,097e	273e	213e	914e
99 Bryn Mawr College	2,791	0	1,190	211	212	427	172	579	0
100 Baylor Col of Dentistry	2,718	0	0	0	0	2,718	0	0	0
Total, 1st 100 institutions	9,422,129	1,244,625	883,066	335,726	468,938	5,941,379	124,030	285,405	138,960
Total, all other sampled institutions	122,806	17,067	24,512	5,192	9,316	39,624	11,117	11,743	4,235

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-45. Federally financed R&D expenditures at private universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	6,855,593	935,634	774,131	278,739	382,417	4,203,975	102,197	125,109	53,391
1 Johns Hopkins U ¹	793,266	247,231	95,181	35,596	93,316	305,404	3,453	8,019	5,066
2 Stanford University	367,127	91,593	48,463	6,029	16,245	199,299	3,830	1,668	0
3 U of Pennsylvania	312,434	9,651	22,163	92	8,699	259,136	2,564	8,585	1,544
4 MA Institute of Tech	306,668	106,362	89,453	20,410	27,459	55,109	1,008	1,954	4,913
5 Columbia U in City of NY	283,163	13,068	25,462	46,838	6,578	185,106	2,865	3,216	30
6 Harvard University	281,699	4,009	29,920	12,362	3,455	213,775	4,059	14,119	0
7 Washington University	254,148	4,120	7,848	2,757	6,817	228,233	1,469	2,904	0
8 Yale University	232,019	4,704	15,835	2,317	2,569	202,801	2,698	1,095	0
9 Cornell University	229,872	30,977	53,842	2,098	11,670	125,344	2,083	3,858	0
10 U of Southern California	210,872	34,857	7,862	9,513	48,514	103,260	3,394	3,009	463
Total, 1st 10 institutions	3,271,268	546,572	396,029	138,012	225,322	1,877,467	27,423	48,427	12,016
11 Duke University	204,180	11,358	11,171	4,638	3,344	159,656	3,089	10,924	0
12 Baylor Col of Medicine	193,249	0	0	0	0	193,249	0	0	0
13 California Inst of Tech	176,177	25,010	109,631	8,910	1,140	27,468	0	219	3,799
14 University of Rochester	150,593	40,942	12,455	671	2,557	88,295	4,761	912	0
15 Case Western Reserve U	150,586	17,301	4,297	339	228	125,924	466	2,031	0
16 Northwestern University	150,238	30,492	14,565	642	2,813	96,823	1,836	2,725	342
17 Emory University	144,914	0	5,658	0	652	137,489	631	484	0
18 University of Chicago	140,872	0	31,905	5,111	3,105	97,251	1,383	2,117	0
19 Boston University	133,730	15,274	12,004	2,918	2,146	88,405	3,295	1,231	8,457
20 Vanderbilt University	129,986	8,667	10,673	207	731	103,565	2,264	3,879	0
Total, 1st 20 institutions	4,845,793	695,616	608,388	161,448	242,038	2,995,592	45,148	72,949	24,614
21 New York University	117,163	0	3,897	96	8,466	93,890	7,874	2,013	927
22 University of Miami	106,633	944	2,134	25,388	129	68,262	6,725	3,051	0
23 Yeshiva University	101,631	0	0	0	0	101,631	0	0	0
24 Georgetown University	98,836	0	3,980	167	144	92,084	0	2,440	21
25 Mt Sinai Sch Med	98,188	0	0	0	0	98,188	0	0	0
26 Carnegie Mellon U	91,191	24,754	6,276	1,092	40,204	7,760	4,095	6,750	260
27 Princeton University	74,681	21,220	18,039	8,035	4,528	15,571	3,743	3,545	0
28 Thomas Jefferson U	67,448	0	0	0	0	67,448	0	0	0
29 Woods Hole Oceanogr Inst	67,036	12,801	0	54,235	0	0	0	0	0
30 Wake Forest University	65,585	0	332	0	157	65,094	0	0	2
Total, 1st 30 institutions	5,734,185	755,335	643,046	250,461	295,666	3,605,520	67,585	90,748	25,824
31 Tufts University	64,677	3,935	2,703	211	1,023	54,306	1,312	1,187	0
32 Dartmouth College	56,369	7,112	2,266	454	1,800	41,537	2,431	308	461
33 Medical Col of Wisconsin	55,034	0	0	0	0	55,034	0	0	0
34 Tulane University	52,080	3,300	1,337	1,329	564	40,122	106	1,656	3,666
35 Brown University	49,943	5,626	4,771	3,377	7,658	26,011	1,400	1,100	0
36 George Washington U	49,627	7,195	1,736	39	15,835	14,073	619	2,403	7,727
37 Rockefeller U, The	45,211	0	2,357	0	745	42,109	0	0	0
38 Rice University	35,144	6,057	9,784	1,354	12,911	4,415	339	284	0
39 Rush University	32,573	0	0	0	0	32,178	395	0	0
40 University of Dayton	31,717	29,831	1,279	177	49	176	205	0	0
Total, 1st 40 institutions	6,206,560	818,391	669,279	257,402	336,251	3,915,481	74,392	97,686	37,678
41 Syracuse University	29,630	6,844	4,736	888	9,670	3,202	1,400	2,090	800
42 MCP Hahnemann University	27,379	0	0	0	0	27,127	252	0	0
43 University of Notre Dame	27,362	7,346	13,117	0	1,329	4,237	1,084	85	164
44 Northeastern University	26,916	8,250	11,091	13	1,296	5,057	935	274	0
45 Saint Louis University	26,453	0	13	458	137	25,809	36	0	0
46 Brandeis University	26,444	0	3,493	0	1,484	14,241	1,641	5,585	0
47 Rensselaer Polytech Inst	25,555	17,616	4,402	1,064	1,512	694	5	106	156
48 Howard University	25,292	1,689	3,695	97	2,135	15,284	360	1,987	45
49 C R Drew U of Med & Sci	21,969	0	0	0	0	21,969	0	0	0
50 Loyola U of Chicago	20,695	0	1,778	20	55	16,720	1,142	980	0
Total, 1st 50 institutions	6,464,255	860,136	711,604	259,942	353,869	4,049,821	81,247	108,793	38,843

See explanatory information and SOURCE at end of table.

**Table B-45. Federally financed R&D expenditures at private universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
51 Loma Linda University	18,811	0	0	0	0	15,930	0	826	2,055
52 New York Medical College	17,975	0	0	0	0	17,975	0	0	0
53 Boston College	16,673	0	5,424	377	7,373	1,115	343	2,041	0
54 Clark Atlanta University	16,170	1,403	4,060	0	1,287	2,583	97	494	6,246
55 Morehouse School of Med	15,419	0	0	0	0	15,419	0	0	0
56 Drexel University	14,292	9,795	1,137	452	1,198	353	178	1,179	0
57 OR Grad Inst Sci & Tech	13,743	1,217	3,170	2,949	6,380	0	0	27	0
58 Lehigh University	12,726	8,460	2,295	1,033	195	620	123	0	0
59 Eastern VA Med School	12,114	0	0	0	0	12,114	0	0	0
60 Mercer University	11,350	10,049	356	0	0	935	0	10	0
Total, 1st 60 institutions	6,613,528	891,060	728,046	264,753	370,302	4,116,865	81,988	113,370	47,144
61 Illinois Inst of Tech	10,926	3,465	916	0	230	5,832	483	0	0
62 Brigham Young University	10,378	4,355	2,053	345	589	2,127	141	582	186
63 Meharry Medical College	9,192e	0e	0e	320e	7e	8,865e	0e	0e	0e
64 Hampton University	8,994	1,266	3,547	3,637	345	0	0	199	0
65 Stevens Inst of Tech	8,785	5,069	1,240	880	313	0	0	1,283	0
66 Polytechnic University	8,200	3,579	36	0	923	0	0	0	3,662
67 Albany Medical College	7,691	0	0	0	0	7,691	0	0	0
68 Catholic U of America	7,680	1,036	5,737	0	0	407	465	30	5
69 University of Denver	7,439	1,514	2,214	12	420	808	1,907	351	213
70 Tuskegee University	6,694	662	146	0	0	4,732	0	1,154	0
Total, 1st 70 institutions	6,699,507	912,006	743,935	269,947	373,129	4,147,327	84,984	116,969	51,210
71 Southern Methodist U	6,302	1,016	610	2,117	727	1,439	115	278	0
72 Teachers Col, Columbia U	5,613	0	0	0	414	504	2,471	2,224	0
73 Creighton University	5,541	0	251	87	0	5,203	0	0	0
74 University of Tulsa	5,498	2,620	1,295	630	184	644	54	71	0
75 U Ctrl Del Caribe Esc Med	5,347	0	0	0	0	5,347	0	0	0
76 Finch U Hlth Sci Chicago	5,117	0	0	0	0	4,655	462	0	0
77 Worcester Polytech Inst	4,219	3,160	331	0	594	134	0	0	0
78 Wesleyan University	4,058	0	1,650	82	17	1,251	962	96	0
79 Villanova University	4,035	2,720	825	10	150	250	80	0	0
80 Clarkson University	3,837	2,577	895	0	231	63	71	0	0
Total, 1st 80 institutions	6,749,074	924,099	749,792	272,873	375,446	4,166,817	89,199	119,638	51,210
81 Inst of Paper Sci & Tech	3,398e	1,151 i	2,247 i	0i	0i	0i	0i	0i	0i
82 Ponce School of Medicine	3,257	0	0	0	0	3,257	0	0	0
83 Xavier University of LA	3,174	0	636	0	0	1,710	0	0	828
84 Marquette University	3,085	888	636	0	189	1,143	100	129	0
85 Florida Inst of Tech	2,980	867	551	452	525	580	5	0	0
86 Rochester Inst of Tech	2,664	106	1,376	187	0	995	0	0	0
87 Fisk University	2,652	0	2,652	0	0	0	0	0	0
88 Texas Christian U	2,441	68	328	3	0	5	2,037	0	0
89 Wellesley College	2,304i	0i	455i	0i	103i	1,287i	0i	459i	0i
90 Ithaca College	2,131	0	0	0	1,767	257	107	0	0
Total, 1st 90 institutions	6,777,160	927,179	758,673	273,515	378,030	4,176,051	91,448	120,226	52,038

See explanatory information and SOURCE at end of table.

**Table B-45. Federally financed R&D expenditures at private universities and colleges,
by science and engineering field: fiscal year 2000**

[Dollars in thousands]

Page 3 of 3

Institution and ranking	Total	Engi-neering	Physical sciences	Environ-mental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
91 Fordham University	2,101	0	13	85	0	228	1,232	543	0
92 Nova Southeastern U	2,060	0	0	1,131	0	118	811	0	0
93 Spelman College	1,978	0	995	0	25	873	74	11	0
94 Duquesne University	1,902	0	704	0	25	1,088	28	57	0
95 American University	1,886	146	923	10	262	4	321	204	16
96 Morehouse College	1,843e	0e	263e	0e	63e	954e	257e	94e	212e
97 Le Moyne-Owen Coll	1,700	700	0	0	1,000	0	0	0	0
98 Gallaudet University	1,682	0	0	0	0	133	216	1,333	0
99 Clark University	1,652	0	529	679	5	187	237	15	0
100 Embry-Riddle Aero Univ	1,551e	198i	76i	360i	58i	0i	0i	0i	859i
Total, 1st 100 institutions	6,795,515	928,223	762,176	275,780	379,468	4,179,636	94,624	122,483	53,125
Total, all other sampled institutions	60,078	7,411	11,955	2,959	2,949	24,339	7,573	2,626	266

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-46. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by total R&D expenditures: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 2

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	290,369	293,190	254,825	261,681	254,256	248,633	216,513	226,651
1 Howard University	27,873	23,673	23,557	27,254	25,884	21,501	21,658	25,292
2 Florida A&M University	25,415	19,066	21,622	21,612	22,547	15,726	20,693	16,278
3 Clark Atlanta University	28,893	29,637	19,467	16,891	25,943	24,079	12,116	16,170
4 Morehouse School of Med	13,218	13,614	13,622	16,889	12,099	12,461	12,948	15,419
5 NC A&T State University	15,817	14,816	14,741	13,400	13,362	12,924	12,454	11,187
6 Jackson State University	5,135	6,111	8,823	12,027	3,960	5,326	7,925	10,690
7 Tennessee State U	8,629	9,329	10,762	11,285	7,569	7,978	8,522	8,873
8 Prairie View A&M U	9,768	9,952	10,157	9,464	9,315	9,612	8,675	7,679
9 Meharry Medical College	11,212e	11,212e	9,460	9,460e	11,004e	11,004e	9,192	9,192e
10 Hampton University	8,002	7,140	7,472	9,323	7,777	6,801	7,168	8,994
Total, 1st 10 institutions	153,962	144,550	139,683	147,605	139,460	127,412	121,351	129,774
11 Tuskegee University	33,046	37,354	9,223	8,893	29,930	26,894	6,942	6,694
12 Southern U A&M All Camp	10,249	9,063	9,296	8,302	7,774	6,983	6,689	6,418
13 Alabama A&M University	9,813e	14,143	11,562	8,238	8,423e	10,518	8,558	7,056
14 Alcorn State University	4,243i	5,119	5,223	8,034	4,242i	5,119	5,223	8,034
15 Virginia State University	3,988	3,338	2,611	4,422	3,453	2,792	2,061	3,602
16 Morgan State University	3,873i	3,981	1,066	4,371	3,825i	3,960	1,066	4,371
17 U Arkansas Pine Bluff	3,974	4,151	4,151e	4,151i	2,838	2,911	2,911e	2,911i
18 U MD Eastern Shore	2,187	2,265	2,508	3,895	2,187	2,265	2,508	3,895
19 Winston Salem State U	2,034	2,468	1,712	3,450	1,874	1,898	1,619	3,256
20 Xavier University of LA	5,527	5,388	3,294	3,425	5,473	5,355	3,240	3,174
Total, 1st 20 institutions	232,896	231,820	190,329	204,786	209,479	196,107	162,168	179,185
21 Delaware State University	1,947	2,883	2,765	3,415	1,833	2,734	2,055	3,052
22 Norfolk State University	1,401	2,524	2,995	3,408	1,388	2,442	2,970	3,273
23 Fisk University	1,969e	2,909	4,034	3,401	1,969e	2,909	2,846	2,652
24 U of the Virgin Islands	4,828e	4,828e	3,310	3,310e	2,428e	2,428e	1,957	1,957e
25 South Carolina State U	2,855	2,885	2,900	2,915	1,948	1,968	1,978	1,988
26 Morehouse College	592e	592e	2,853	2,853e	591e	591e	1,843	1,843e
27 Fort Valley State U	2,863	2,989	2,937	2,768	2,471	2,359	2,318	2,417
28 University of DC	3,244e	3,074	3,394	2,737	1,756e	1,898	1,829	1,629
29 Bowie State University	2,672	4,511	2,675	2,675e	2,672	4,403	2,360	2,360e
30 Langston University	1,828	2,031	2,340	2,553	1,828	2,031	2,340	2,553
Total, 1st 30 institutions	257,095	261,046	220,532	234,821	228,363	219,870	184,664	202,909
31 Lincoln University	2,899	3,313	2,686	2,502	2,584	2,635i	2,686	2,502
32 Grambling State U	2,634	1,997	1,997e	2,264	2,630	1,936	1,936e	2,200
33 Texas Southern U	3,867	2,690	2,507	2,182	3,707	2,504	2,292	1,844
34 Spelman College	2,553	1,744	2,007	2,082	1,282	1,700	1,832	1,978
35 Le Moyne-Owen Coll	--	1,451	1,053	1,700	--	1,404	1,031	1,700
36 Elizabeth City State U	1,379	684	1,040	1,558	1,146	575	1,040	1,558
37 Albany State University	3,687e	1,019	1,019e	1,393	675e	1,019	1,019e	840
38 Alabama State University	818	1,177	1,365	1,365e	787	1,133	1,190	1,190e
39 Benedict College	634e	800i	966i	1,143	552i	745i	938i	1,143
40 Savannah State Univ	316	331	513	905	316	331i	513	905
Total, 1st 40 institutions	275,882	276,252	235,685	251,915	242,042	233,852	199,141	218,769
41 Tougaloo College	1,815	1,180	1,227	895	929	657	767	473
42 Mississippi Valley St U	563	350	495	834	563	350	495	834
43 Bennett College	93e	811	811e	811i	93e	583	583e	583i
44 North Carolina Central U	869e	869	825e	808i	795i	786i	777e	761i
45 Kentucky State University	2,139	713	713e	713i	2,139	703	703e	703i
46 Lincoln University (PA)	1,032	1,364	972	709	949	1,364	972	709
47 Virginia Union University	--	671	671e	671i	--	537	537e	537i
48 Bethune Cookman College	606	566	583	586	472	566	583	586
49 Oakwood College	718	845	567	567e	716	690	447	447e
50 Central State University	1,786e	1,497	1,497e	560e	1,153i	1,144	1,144e	283e
Total, 1st 50 institutions	285,503	285,118	244,046	259,069	249,851	241,232	206,149	224,685

See explanatory information and SOURCE at end of table.

Table B-46. Total and federally financed R&D expenditures at historically black colleges and universities, ranked by total R&D expenditures: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 Claflin College	1,254	1,403	555	555e	1,074	1,028	250	250e
52 Fayetteville State U	139	485	265	507	139	378	265	507
53 Johnson C Smith U	1,546	4,299	8,659	287	1,546	4,299	8,659	250
54 Wilberforce University	280	280e	280i	280i	236	236e	236i	236i
55 Dillard University	175	175e	175	264	164	164e	164	182
56 Southern U New Orleans	--	--	--	183	--	--	--	60e
57 Rust College	0	317	114	138	0	317	114	138
58 Morris Brown College	525	525e	321i	116	525	525e	321i	116
59 Shaw University	147	110	100	100e	122	110	100	100e
60 Philander Smith College	73	73e	72	72e	73	73e	72	72e
Total, 1st 60 institutions	289,642	292,785	254,587	261,571	253,730	248,362	216,330	226,596
61 Jarvis Christian College	83	55	56	55	83	55	56	55
62 West Virginia State Col	256	119	55	55e	196	0	0	0e
63 Bluefield State College	--	15	0	0	--	0	0	0
64 Coppin State College	15	6	11	0	15	6	11	0
65 Selma University	210	210e	116	0	210	210e	116	0
66 Talladega College	0	0e	0	0	0	0i	0	0
67 Trenholm State Tech Col	0	0	0	0	0	0	0	0
68 Voorhees College	0	--	--	0	0	--	--	0
69 Wiley College	--	0	0	0	--	0	0	0
70 Knoxville College	163e	0	0	--	22i	0	0	--
Total, 1st 70 institutions	290,369	293,190	254,825	261,681	254,256	248,633	216,513	226,651

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-47. Total and federally financed R&D expenditures in engineering
at universities and colleges, ranked by total R&D expenditures
in engineering: fiscal years 1997-2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	3,838,747	4,068,829	4,261,387	4,550,315	2,255,827	2,353,658	2,439,180	2,562,937
1 Johns Hopkins U ¹	204,860	216,973	225,813	251,993	200,568	212,747	221,320	247,231
2 Georgia Institute of Tech	164,359	165,472	172,053	197,589	76,996	72,542	73,638	81,862
3 Pennsylvania State U	130,431	142,907	138,455	162,795	79,149	85,368	80,195	99,076
4 MA Institute of Tech	166,049	178,664	153,789	149,282	125,617	127,064	110,676	106,362
5 University of Michigan	113,193	109,219	131,570	136,176	67,125	68,083	83,573	86,675
6 U CA Berkeley	88,331	99,697	107,062	120,757	37,062	48,225	51,323	56,757
7 Texas A&M University	96,936	108,306	108,249	118,494	31,835	27,986	31,065	31,008
8 Stanford University	116,322	116,364	114,272	107,473	104,139	102,752	98,864	91,593
9 U TX at Austin	108,658	81,547	95,987	100,294	73,615	46,499	61,383	65,769
10 U of IL Urbana-Champaign	63,113	87,557	91,373	95,353	38,292	51,751	53,912	57,385
Total, 1st 10 institutions	1,252,252	1,306,706	1,338,623	1,440,206	834,398	843,017	865,949	923,718
11 Ohio State University	65,260	70,275	77,090	82,705	18,521	18,760	20,467	21,302
12 NC State University	70,033	80,278	80,586	76,839	26,624	33,161	27,008	25,259
13 U MD at College Park	67,188	67,267	76,548	76,091	33,368	38,734	42,645	40,494
14 Purdue University	65,009	68,096	70,106	71,515	34,032	34,899	36,509	31,300
15 U WI-Madison	55,671	56,512	61,363	71,293	34,233	34,042	34,500	41,315
16 VA Polytech Inst & St U	49,254	48,844	53,530	66,963	27,629	25,000	25,584	26,084
17 Cornell University	44,522	44,687	49,641	54,860	27,116	28,416	31,243	30,977
18 University of Arizona	22,777	42,394	43,094	48,272	12,231	24,232	25,320	29,305
19 University of Florida	38,296	48,621	46,186	47,513	17,426	21,735	20,227	23,973
20 Iowa State University	41,721	40,370	40,019	47,049	17,942	14,229	13,207	16,863
Total, 1st 20 institutions	1,771,983	1,874,050	1,936,786	2,083,306	1,083,520	1,116,225	1,142,659	1,210,590
21 New Mexico State Univ	47,136	46,187	47,632	46,790	39,249	37,487	38,257	39,179
22 U CA San Diego	33,055	46,169	47,725	46,660	19,434	27,585	25,273	24,534
23 University of Rochester	36,633	38,158	41,864	46,494	31,597	34,243	36,235	40,942
24 U CA Los Angeles	34,411	42,967	46,108	46,434	22,732	28,171	29,527	29,689
25 U of Southern California	42,701	38,686	42,148	46,319	32,964	30,530	32,688	34,857
26 Northwestern University	30,502	42,636	42,618	44,685	17,076	27,047	30,446	30,492
27 California Inst of Tech	32,158	35,630	40,470	43,320	29,158	31,536	37,675	25,010
28 Louisiana State U System	36,918	35,605	37,781	41,628	13,844	13,535	15,326	18,937
29 University of Minnesota	38,689	37,595	38,564	41,343	24,508	24,122	24,055	24,515
30 Utah State University	25,469	33,933	32,083	41,074	18,843	29,337	27,360	31,180
Total, 1st 30 institutions	2,129,655	2,271,616	2,353,779	2,528,053	1,332,925	1,399,818	1,439,501	1,509,925
31 Princeton University	35,120	35,805	39,080	41,026	21,719	20,707	22,316	21,220
32 U of Washington	32,716	34,277	34,889	39,009	20,333	21,927	21,875	24,906
33 U CA Santa Barbara	34,363	34,985	37,147	38,902	25,746	26,427	27,670	28,834
34 Mississippi State U	17,868	22,862	30,713	38,107	13,863	15,833	20,914	25,329
35 Carnegie Mellon U	30,575	34,363	38,676	36,892	20,330	23,142	24,272	24,754
36 Arizona State University	27,720	32,745	34,378	36,612	10,755	12,501	13,841	13,978
37 University of Dayton	40,719	41,418	33,386	36,325	33,438	34,141	28,403	29,831
38 Clemson University	26,549	26,584	30,583	35,374	8,876	8,315	8,331	9,636
39 U CA Davis	19,880	27,726	29,528	35,197	6,996	10,216	10,069	12,693
40 Rutgers the State U NJ	21,065	25,908	29,097	33,681	10,772	11,517	12,867	15,101
Total, 1st 40 institutions	2,416,230	2,588,289	2,691,256	2,899,178	1,505,753	1,584,544	1,630,059	1,716,207
41 U of Tennessee System	31,024	27,827	27,772	32,928	13,301	12,855	11,676	11,971
42 SUNY at Buffalo	22,156	27,690	29,946	32,301	13,538	14,129	14,579	16,121
43 University of Kentucky	21,118	25,174	27,478	31,426	10,408	9,871	10,140	12,253
44 Rensselaer Polytech Inst	27,369 <i>i</i>	23,963	28,275	31,036	15,900 <i>i</i>	11,925	14,857	17,616
45 University of Colorado	31,608	28,935	26,187	31,022	17,669	16,824	15,925	23,231
46 University of Connecticut	34,110	24,166	23,793	27,294	5,971	5,564	6,041	5,228
47 University of Virginia	19,678	22,490	24,276	26,910	13,103	14,551	16,824	18,543
48 University of New Mexico	30,964	27,243	26,998	26,464	22,742	20,093	21,305	21,979
49 Case Western Reserve U	28,436	28,340	26,239	25,518	19,105	18,166	17,695	17,301
50 University of Utah	18,968	19,174	21,816	25,293	12,338	12,197	13,405	15,561
Total, 1st 50 institutions	2,681,661	2,843,291	2,954,036	3,189,370	1,649,828	1,720,719	1,772,506	1,876,011

See explanatory information and SOURCE at end of table.

**Table B-47. Total and federally financed R&D expenditures in engineering
at universities and colleges, ranked by total R&D expenditures
in engineering: fiscal years 1997-2000**

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 University of Cincinnati	18,705	21,569	25,453	24,127	10,894	11,992	12,801	11,604
52 Auburn University	17,287	17,239	20,575	23,859	11,017	10,644	11,392	12,106
53 University of Delaware	22,717	23,408	26,908	23,730	10,574	10,647	11,701	12,009
54 U of South Carolina	12,003	17,116	21,578	23,095	7,534	10,545	12,595	14,923
55 U of Iowa	18,169	21,888	20,409	22,921	7,118	8,642	8,495	9,534
56 U of Nebraska at Lincoln	19,732	20,029 i	22,112	22,365	3,715	3,771 i	4,257	4,400
57 U of Missouri Columbia	16,712	16,606	20,312	21,818	4,131	4,254	6,105	8,669
58 West Virginia University	14,102	18,923	20,601	20,560	7,636	9,472	10,188	8,668
59 U of Missouri Rolla	14,573	15,086	18,277	19,698	5,754	5,439	6,141	7,161
60 Lehigh University	20,065	20,354	22,190	19,503	10,204	8,842	9,152	8,460
Total, 1st 60 institutions	2,855,726	3,035,509	3,172,451	3,411,046	1,728,405	1,804,967	1,865,333	1,973,545
61 U of IL Chicago	11,892	12,979	15,107	19,007	4,451	5,007	5,696	9,333
62 Michigan Tech University	15,714	16,959	18,896	18,387	8,140	8,166	9,581	10,041
63 Michigan State University	18,764	17,837	16,673	18,348	5,987	5,096	4,913	5,913
64 NJ Inst of Technology	19,510	19,714	19,714	18,274	12,138	11,162	11,162	3,358
65 University of Houston	23,311	19,097	17,661	18,081	8,718	7,783	5,423	5,721
66 U MA Amherst	14,212	16,264	15,146	17,476	5,100	5,894	5,747	6,800
67 Boston University	12,878	14,969	16,110	17,455	9,361	10,610	14,767	15,274
68 Texas Tech University	13,498	16,221	16,384	17,363	5,092	6,628	6,861	6,178
69 U of Alabama Huntsville	12,149	14,387	16,887	17,154	6,603	7,260	8,556	8,964
70 University of Alabama, The	11,377	11,474	13,241	17,058	7,249	8,518	9,939	11,227
Total, 1st 70 institutions	3,009,031	3,195,410	3,338,270	3,589,649	1,801,244	1,881,091	1,947,978	2,056,354
71 Oklahoma State University	11,294	12,899	14,655	16,752	5,355	5,604	5,706	6,465
72 U of South Florida	16,671	15,728	12,902	16,698	5,458	6,284	5,106	4,615
73 Washington State U	10,525	12,321	14,288	16,660	5,447	6,982	7,727	9,878
74 Woods Hole Oceanogr Inst	15,891	12,016	12,999	16,637	12,389	9,096	9,297	12,801
75 Columbia U in City of NY	14,114	14,901	15,645	16,393	9,254	11,438	13,450	13,068
76 Kansas State University	12,825	12,972	13,356	15,935	5,231	5,110	4,526	5,611
77 Drexel University	13,317	12,867	17,351	15,828	8,230	8,025	10,620	9,795
78 SUNY at Stony Brook	8,856	10,083	11,047	15,574	5,325	6,498	6,410	8,098
79 U CA Irvine	10,709	11,658	12,461	15,518	4,474	4,288	4,787	5,590
80 Colorado State University	16,207	17,998	13,670	15,452	8,267	8,653	6,430	8,162
Total, 1st 80 institutions	3,139,440	3,328,853	3,476,644	3,751,096	1,870,674	1,953,069	2,022,037	2,140,437
81 Duke University	12,327	13,710	14,650	15,249	8,005	10,155	11,002	11,358
82 University of Oklahoma	15,554	14,008	15,592	15,163	4,066	3,264	3,176	4,122
83 Florida International U	8,648	8,906	10,359	14,641	7,253	7,470	8,984	8,576
84 NM Inst Mining & Tech	14,451	15,526	16,835	14,393	7,018	5,878	7,807	5,912
85 Oregon State University	14,133	14,178	14,440	13,903	8,922	9,364	9,648	8,651
86 Colorado School of Mines	13,486	14,296	14,578	13,878	5,522	4,977	5,967	5,195
87 Mercer University	10,397 i	11,561	13,928	13,639	9,856 i	11,140	11,608	10,049
88 U of Pennsylvania	11,740	12,785	13,911	13,315	8,609	10,123	10,598	9,651
89 Wichita State University	9,223	10,531	11,369	12,808	1,677	1,686	1,723	3,166
90 U of New Hampshire	3,563	5,520	8,207	12,462	1,014	1,409	2,889	4,789
Total, 1st 90 institutions	3,252,962	3,449,874	3,610,513	3,890,547	1,932,616	2,018,535	2,095,439	2,211,906

See explanatory information and SOURCE at end of table.

**Table B-47. Total and federally financed R&D expenditures in engineering
at universities and colleges, ranked by total R&D expenditures
in engineering: fiscal years 1997-2000**

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 U of Arkansas Main	9,220	11,576	9,638	12,460	3,816	4,714	3,896	6,504
92 University of Kansas	10,076	13,751	13,085	12,403	4,664	7,674	5,799	5,570
93 Vanderbilt University	8,441	7,529	9,764	12,223	6,426	4,669	6,595	8,667
94 Wayne State University	10,768	10,633	10,823	12,155	3,025	2,613	2,925	3,557
95 University of Pittsburgh	7,182	7,532	8,912	11,858	4,038	3,656	4,168	6,595
96 Old Dominion University	6,446	7,933	10,056	11,712	4,021	5,542	6,196	7,558
97 Northeastern University	8,280	11,274	13,118	11,680	6,318	8,960	9,835	8,250
98 Florida State University	2,650	3,170	11,237	11,673	1,798	1,966	7,431	7,159
99 Florida Atlantic U	6,485	8,643	10,035	11,325	5,399	6,920	8,146	8,496
100 Syracuse University	9,465 <i>i</i>	8,927	9,157	10,653	6,984 <i>i</i>	8,570	6,941	6,844
Total, 1st 100 institutions	3,331,975	3,540,842	3,716,338	4,008,689	1,979,105	2,073,819	2,157,371	2,281,106
Total, all other sampled institutions	506,772	527,987	545,049	541,626	276,722	279,839	281,809	281,831

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: *i* = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-48. R&D expenditures in engineering subfields
at universities and colleges: fiscal year 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total	Aero/ astro- nautical	Bioengi- neering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
Total, all institutions	4,550,315	252,276	172,023	374,310	595,969	1,112,799	631,910	398,995	1,012,033
1 Johns Hopkins U ¹	251,993	24,047i	10,482i	6,150i	5,785i	73,784i	50,939i	772i	80,034
2 Georgia Institute of Tech	197,589	18,481	7,390	5,938	12,455	92,656	23,421	11,127	26,121
3 Pennsylvania State U	162,795	2,530	2,576	14,257	10,030	40,265	23,801	38,248	31,088
4 MA Institute of Tech	149,282	15,519	13,379	16,106	13,054	25,516	22,146	12,858	30,704
5 University of Michigan	136,176	4,520	4,402	3,623	12,400	43,292	25,067	6,158	36,714
6 U CA Berkeley	120,757	0	188	4,842	35,073	59,744	129	0	20,781
7 Texas A&M University	118,494	5,272	1,893	9,364	40,902	5,737	13,446	3,355	38,525
8 Stanford University	107,473	6,020	0	6,424	7,333	25,371	19,725	2,424	40,176
9 U TX at Austin	100,294	9,091	2,424	7,469	14,997	27,777	10,940	13,505	14,091
10 U of IL Urbana-Champaign	95,353	4,504	1	5,160	14,623	30,180	15,418	12,710	12,757
Total, 1st 10 institutions	1,440,206	89,984	42,735	79,333	166,652	424,322	205,032	101,157	330,991
11 Ohio State University	82,705	2,622	778	4,962	5,380	10,947	10,012	15,196	32,808
12 NC State University	76,839	4,034	6,336	15,382	12,649	12,481	8,534	9,413	8,010
13 U MD at College Park	76,091	11,414	0	1,211	6,988	10,206	12,370	5,877	28,025
14 Purdue University	71,515	5,389	6,549	6,624	11,799	17,312	9,774	2,170	11,898
15 U WI-Madison	71,293	0	428	7,317	4,093	7,052	4,238	3,237	44,928
16 VA Polytech Inst & St U	66,963	4,023	643	2,644	14,316	17,432	11,933	3,979	11,993
17 Cornell University	54,860	4,089	0	3,020	4,961	18,012	1,301	4,836	18,641
18 University of Arizona	48,272	908	1,926	4,933	7,921	15,230	12,482	2,501	2,371
19 University of Florida	47,513	2,716	822	5,832	10,750	4,358	2,246	8,658	12,131
20 Iowa State University	47,049	1,716	0	1,084	6,330	8,035	1,258	2,086	26,540
Total, 1st 20 institutions	2,083,306	126,895	60,217	132,342	251,839	545,387	279,180	159,110	528,336
21 New Mexico State Univ	46,790	23,145	0	5,442	1,185	7,357	455	146	9,060
22 U CA San Diego	46,660	0	8,248	0	0	21,107	4,340	772	12,193
23 University of Rochester	46,494	0	0	1,828	0	2,668	34,701	0	7,297
24 U CA Los Angeles	46,434	0	138	3,153	3,020	22,001	14,678	3,156	288
25 U of Southern California	46,319	1,667	3,105	1,432	4,989	26,496	1,418	1,823	5,389
26 Northwestern University	44,685	0	2,510	4,086	4,108	5,041	3,429	12,488	13,023
27 California Inst of Tech	43,320	5,657	0	5,105	1,678	10,004	2,580	1,414	16,882
28 Louisiana State U System	41,628	0	0	2,344	6,138	977	3,969	9,456	18,744
29 University of Minnesota	41,343	4,168	361	9,057	8,281	7,747	7,797	64	3,868
30 Utah State University	41,074	0	0	0	1,188	30,973	4,003	0	4,910
Total, 1st 30 institutions	2,528,053	161,532	74,579	164,789	282,426	679,758	356,550	188,429	619,990
31 Princeton University	41,026	7,374	0	3,130	3,709	19,022	0	7,083	708
32 U of Washington	39,009	2,719	3,326	5,324	8,024	2,614	1,208	15,794	0
33 U CA Santa Barbara	38,902	0	180	4,995	0	21,138	2,588	9,848	153
34 Mississippi State U	38,107	2,450	0	2,409	1,762	3,852	1,925	0	25,709
35 Carnegie Mellon U	36,892	0	0	3,379	2,681	12,141	3,525	4,533	10,633
36 Arizona State University	36,612	172	1,408	2,690	8,723	10,469	7,813	0	5,337
37 University of Dayton	36,325	2,054	0	520	300	775	11,780	15,568	5,328
38 Clemson University	35,374	0	0	1,403	6,070	6,980	4,132	0	16,789
39 U CA Davis	35,197	0	5,519	4,081	9,426	4,492	6,066	0	5,613
40 Rutgers the State U NJ	33,681	0	4,037	2,073	2,165	6,604	5,420	9,897	3,485
Total, 1st 40 institutions	2,899,178	176,301	89,049	194,793	325,286	767,845	401,007	251,152	693,745
41 U of Tennessee System	32,928	6,509	0	2,578	12,808	3,080	0	1,605	6,348
42 SUNY at Buffalo	32,301	545	456	1,718	11,146	3,677	10,010	0	4,749
43 University of Kentucky	31,426	0	0	2,320	353	2,398	2,694	0	23,661
44 Rensselaer Polytech Inst	31,036	4	1,303	2,177	3,904	15,042	2,230	2,410	3,966
45 University of Colorado	31,022	11,665i	0i	3,521i	6,077	5,874	3,024	127i	734
46 University of Connecticut	27,294	0	0	2,616	9,437	3,535	1,413	9,706	587
47 University of Virginia	26,910	331	2,601	2,014	2,744	4,685	5,060	7,349	2,126
48 University of New Mexico	26,464	0	0	1,998	5,265	6,531	1,131	9,708	1,831
49 Case Western Reserve U	25,518	0	5,047	6,391	689	4,632	4,317	4,328	114
50 University of Utah	25,293	0	3,531	6,170	7,085	1,873	1,744	2,977	1,913
Total, 1st 50 institutions	3,189,370	195,355	101,987	226,296	384,794	819,172	432,630	289,362	739,774

See explanatory information and SOURCE at end of table.

**Table B-48. R&D expenditures in engineering subfields
at universities and colleges: fiscal year 2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total	Aero/ astro- nautical	Bioengi- neering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
51 University of Cincinnati	24,127	2,038	0	1,666	7,765	8,091	2,397	2,049	121
52 Auburn University	23,859	1,211	0	6,255	2,670	4,088	2,259	1,462	5,914
53 University of Delaware	23,730	0	0	5,890	4,705	5,283	3,637	0	4,215
54 U of South Carolina	23,095	0	0	5,961	1,614	10,064	3,602	854	1,000
55 U of Iowa	22,921	0	658	1,939	8,182	2,372	3,967	0	5,803
56 U of Nebraska at Lincoln	22,365	0	8,011	794	3,697	2,261	1,802	1,187	4,613
57 U of Missouri Columbia	21,818	0	0	2,619	4,639	4,282	1,823	3,112	5,343
58 West Virginia University	20,560	31	0	1,604	4,998	3,331	8,859	158	1,579
59 U of Missouri Rolla	19,698	694	0	196	2,615	3,879	2,579	7,538	2,197
60 Lehigh University	19,503	0	0	3,194	5,400	2,882	2,843	2,400	2,784
Total, 1st 60 institutions	3,411,046	199,329	110,656	256,414	431,079	865,705	466,398	308,122	773,343
61 U of IL Chicago	19,007	0	2,219	1,099	2,728	8,297	4,089	0	575
62 Michigan Tech University	18,387	0	483	2,561	5,440	1,297	4,874	2,439	1,293
63 Michigan State University	18,348	0	0	4,742	2,627	3,015	3,457	1,556	2,951
64 NJ Inst of Technology	18,274	0	0	1,508	1,334	4,043	975	0	10,414
65 University of Houston	18,081	2,681	0	2,086	1,718	2,192	2,768	6,467	169
66 U MA Amherst	17,476	0	0	3,751	3,419	5,655	4,143	0	508
67 Boston University	17,455	737	8,599	0	0	4,944	737	2,326	112
68 Texas Tech University	17,363	0	0	1,528	5,877	5,664	455	2,727	1,112
69 U of Alabama Huntsville	17,154	0	0	1,855	723	5,213	5,408	592	3,363
70 University of Alabama, The	17,058	3,715	0	2,211	2,957	608	1,867	3,354	2,346
Total, 1st 70 institutions	3,589,649	206,462	121,957	277,755	457,902	906,633	495,171	327,583	796,186
71 Oklahoma State University	16,752	104	0	1,463	2,027	1,899	3,011	0	8,248
72 U of South Florida	16,698	0	0	329	11,658	2,669	801	694	547
73 Washington State U	16,660	0	2,890	1,055	2,357	4,268	2,006	3,218	866
74 Woods Hole Oceanogr Inst	16,637	1,180i	0i	1,218i	1,292i	4,097i	3,622i	0i	5,228
75 Columbia U in City of NY	16,393	0	1,310	1,285	872	1,970	868	1,937	8,151
76 Kansas State University	15,935	0	0	2,217	2,605	763	2,098	0	8,252
77 Drexel University	15,828	0	1,459	1,321	3,010	3,646	958	1,902	3,532
78 SUNY at Stony Brook	15,574	0	594	0	0	4,130	4,141	5,866	843
79 U CA Irvine	15,518	0	604	2,407	4,071	3,445	4,488	0	503
80 Colorado State University	15,452	0	3,632	1,846	4,512	2,210	2,584	0	668
Total, 1st 80 institutions	3,751,096	207,746	132,446	290,896	490,306	935,730	519,748	341,200	833,024
81 Duke University	15,249	0	4,968	0	744	6,313	3,224	0	0
82 University of Oklahoma	15,163	0	0	6,240	3,212	2,549	1,715	0	1,447
83 Florida International U	14,641	0	439	0	732	1,025	586	0	11,859
84 NM Inst Mining & Tech	14,393	0	0	5,536	0	220	0	1,247	7,390
85 Oregon State University	13,903	0	1,064	196	3,710	2,038	1,589	1,624	3,682
86 Colorado School of Mines	13,878	0	0	3,445	0	0	0	8,272	2,161
87 Mercer University	13,639	475	0	39	0	280	1,661	11,001	183
88 U of Pennsylvania	13,315	0	2,242	1,777	529	617	1,372	3,852	2,926
89 Wichita State University	12,808	10,555	0	0	0	147	696	0	1,410
90 U of New Hampshire	12,462	0	0	767	4,652	5,166	1,187	0	690
Total, 1st 90 institutions	3,890,547	218,776	141,159	308,896	503,885	954,085	531,778	367,196	864,772

See explanatory information and SOURCE at end of table.

**Table B-48. R&D expenditures in engineering subfields
at universities and colleges: fiscal year 2000**

[Dollars in thousands]

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Institution and ranking	Total	Aero/ astro- nautical	Bioengin- eering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
91 U of Arkansas Main	12,460	0	0	739	2,490	3,930	1,411	0	3,890
92 University of Kansas	12,403	995	0	1,891	2,518	6,068	839	0	92
93 Vanderbilt University	12,223	0	1,744	699	1,078	6,574	1,798	330	0
94 Wayne State University	12,155	0	2,486	1,812	802	2,093	2,223	7	2,732
95 University of Pittsburgh	11,858	0	1,328	3,540	444	1,216	461	2,321	2,548
96 Old Dominion University	11,712	1,942	0	0	745	5,400	1,510	0	2,115
97 Northeastern University	11,680	0	0	2,667	771	6,251	966	0	1,025
98 Florida State University	11,673	0	0	187	1,267	561	9,575	52	31
99 Florida Atlantic U	11,325	0	0	0	0	1,727	382	0	9,216
100 Syracuse University	10,653	110	1,975	809	1,361	3,670	697	176	1,855
Total, 1st 100 institutions	4,008,689	221,823	148,692	321,240	515,361	991,575	551,640	370,082	888,276
Total, all other sampled institutions	541,626	30,453	23,331	53,070	80,608	121,224	80,270	28,913	123,757

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-49. Federally financed R&D expenditures in engineering subfields at universities and colleges: fiscal year 2000

[Dollars in thousands]

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Institution and ranking	Total	Aero/ astro- nautical	Bioengi- neering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
Total, all institutions	2,562,937	176,037	90,247	194,694	232,130	694,518	382,391	225,930	566,990
1 Johns Hopkins U ¹	247,231	23,634i	8,864i	5,295i	4,867i	73,461i	50,418i	700i	79,992
2 MA Institute of Tech	106,362	14,312	10,514	10,131	9,121	18,623	11,822	9,320	22,519
3 Pennsylvania State U	99,076	1,058	1,889	8,491	1,731	28,864	13,570	20,315	23,158
4 Stanford University	91,593	5,236	0	5,378	5,905	20,709	15,736	1,901	36,728
5 University of Michigan	86,675	3,192	1,568	2,315	7,610	28,617	15,034	3,505	24,834
6 Georgia Institute of Tech	81,862	7,657	3,062	2,460	5,160	38,387	9,704	4,610	10,822
7 U TX at Austin	65,769	7,814	2,094	3,823	847	23,416	8,242	7,503	12,030
8 U of IL Urbana-Champaign	57,385	3,559	0	3,001	7,627	19,753	8,618	9,242	5,585
9 U CA Berkeley	56,757	0	0	1,880	8,964	36,018	0	0	9,895
10 U WI-Madison	41,315	0	175	4,295	2,360	3,753	1,442	2,264	27,026
Total, 1st 10 institutions	934,025	66,462	28,166	47,069	54,192	291,601	134,586	59,360	252,589
11 University of Rochester	40,942	0	0	1,574	0	1,999	32,458	0	4,911
12 U MD at College Park	40,494	7,792	0	969	2,457	6,712	6,104	4,126	12,334
13 New Mexico State Univ	39,179	20,617	0	4,736	547	5,941	372	133	6,833
14 U of Southern California	34,857	1,293	2,705	850	3,347	19,895	1,073	1,671	4,023
15 Purdue University	31,300	2,859	1,529	2,403	2,880	11,199	3,078	1,585	5,767
16 Utah State University	31,180	0	0	397	25,243	3,595	0	1,945	
17 Texas A&M University	31,008	2,540	290	1,963	7,031	1,335	2,793	208	14,848
18 Cornell University	30,977	2,430	0	1,647	1,982	9,020	772	2,467	12,659
19 Northwestern University	30,492	0	1,443	2,084	2,609	3,669	2,317	9,686	8,684
20 University of Dayton	29,831	1,013	0	441	158	475	9,744	13,723	4,277
Total, 1st 20 institutions	1,274,285	105,006	34,133	63,736	75,600	377,089	196,892	92,959	328,870
21 U CA Los Angeles	29,689	0	0	1,919	481	14,155	11,819	1,315	0
22 University of Arizona	29,305	654	687	2,901	6,079	8,728	7,451	1,732	1,073
23 U CA Santa Barbara	28,834	0	0	3,907	0	16,224	1,842	6,861	0
24 VA Polytech Inst & St U	26,084	2,171	136	750	3,652	7,700	6,312	1,552	3,811
25 Mississippi State U	25,329	1,262	0	412	484	2,526	887	0	19,758
26 NC State University	25,259	1,717	1,111	6,177	2,751	4,583	2,883	4,361	1,676
27 California Inst of Tech	25,010	3,530	0	2,772	139	7,018	2,205	1,379	7,967
28 U of Washington	24,906	2,319	1,946	2,753	4,801	1,670	503	10,914	0
29 Carnegie Mellon U	24,754	0	0	2,223	1,812	8,562	2,038	2,915	7,204
30 U CA San Diego	24,534	0	5,837	0	0	11,006	2,603	245	4,843
Total, 1st 30 institutions	1,537,989	116,659	43,850	87,550	95,799	459,261	235,435	124,233	375,202
31 University of Minnesota	24,515	3,646	41	5,682	3,054	5,050	5,036	0	2,006
32 University of Florida	23,973	1,649	0	2,544	3,932	2,104	1,341	5,115	7,288
33 University of Colorado	23,231	9,977i	0i	2,299i	4,358	3,807	2,276	114i	400
34 University of New Mexico	21,979	0	0	1,895	3,872	5,724	860	8,538	1,090
35 Ohio State University	21,302	458	361	1,178	1,127	3,740	3,335	5,428	5,675
36 Princeton University	21,220	3,702	0	1,564	2,160	8,321	0	5,473	0
37 Louisiana State U System	18,937	0	0	492	1,565	338	1,359	2,517	12,666
38 University of Virginia	18,543	273	1,409	1,550	1,955	3,387	2,407	6,335	1,227
39 Rensselaer Polytech Inst	17,616	0	908	1,724	1,937	6,653	1,461	1,493	3,440
40 Case Western Reserve U	17,301	0	3,455	3,677	474	2,989	3,403	3,303	0
Total, 1st 40 institutions	1,746,606	136,364	50,024	110,155	120,233	501,374	256,913	162,549	408,994
41 Iowa State University	16,863	1,260	0	474	1,036	2,589	595	1,412	9,497
42 SUNY at Buffalo	16,121	0	0	811	4,891	985	8,681	0	753
43 University of Utah	15,561	0	2,473	5,497	2,753	456	1,504	2,349	529
44 Boston University	15,274	700	7,127	0	0	4,594	700	2,041	112
45 Rutgers the State U NJ	15,101	0	1,044	676	78	2,056	4,532	4,644	2,071
46 U of South Carolina	14,923	0	0	3,000	828	7,570	2,528	312	685
47 Arizona State University	13,978	30	671	1,783	3,537	3,461	3,222	0	1,274
48 Columbia U in City of NY	13,068	0	654	53	324	1,750	797	1,371	8,119
49 Woods Hole Oceanogr Inst	12,801	912i	0i	996i	1,005i	3,345i	2,483i	0i	4,060
50 U CA Davis	12,693	0	1,440	2,512	1,368	1,982	1,317	0	4,074
Total, 1st 50 institutions	1,892,989	139,266	63,433	125,957	136,053	530,162	283,272	174,678	440,168

See explanatory information and SOURCE at end of table.

Table B-49. Federally financed R&D expenditures in engineering subfields at universities and colleges: fiscal year 2000

[Dollars in thousands]

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Institution and ranking	Total	Aero/ astro- nautical	Bioengi- neering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
51 University of Kentucky	12,253	0	0	975	190	921	1,493	0	8,674
52 Auburn University	12,106	782	0	1,316	1,697	1,911	1,640	1,209	3,551
53 University of Delaware	12,009	0	0	2,940	2,684	2,024	2,046	0	2,315
54 U of Tennessee System	11,971	2,198	0	1,474	2,829	2,183	0	1,065	2,222
55 University of Cincinnati	11,604	500	0	427	4,844	4,336	535	962	0
56 Duke University	11,358	0	3,498	0	328	5,228	2,304	0	0
57 University of Alabama, The	11,227	3,392	0	1,884	1,034	490	1,138	2,157	1,132
58 Mercer University	10,049	274	0	39	0	277	1,023	8,436	0
59 Michigan Tech University	10,041	0	18	736	4,291	860	2,453	1,368	315
60 Washington State U	9,878	0	1,387	948	1,413	1,765	1,447	2,640	278
Total, 1st 60 institutions	2,005,485	146,412	68,336	136,696	155,363	550,157	297,351	192,515	458,655
61 Drexel University	9,795	0	890	884	1,045	2,643	591	1,011	2,731
62 Naval Postgrad School	9,691 i	3,206 i	0 i	0 i	0 i	3,965 i	1,952 i	568 i	0
63 U of Pennsylvania	9,651	0	1,771	1,300	0	235	1,246	2,464	2,635
64 Clemson University	9,636	0	0	382	1,653	1,901	1,127	0	4,573
65 U of Iowa	9,534	0	182	1,202	2,870	1,551	1,610	0	2,119
66 U of IL Chicago	9,333	0	234	622	713	5,736	2,028	0	0
67 U of Alabama Huntsville	8,964	0	0	648	532	2,491	3,129	293	1,871
68 U of Missouri Columbia	8,669	0	0	432	2,913	1,909	548	0	2,867
69 West Virginia University	8,668	21	0	366	2,743	1,399	3,391	18	730
70 Vanderbilt University	8,667	0	1,044	524	572	4,962	1,312	253	0
Total, 1st 70 institutions	2,098,093	149,639	72,457	143,056	168,404	576,949	314,285	197,122	476,181
71 Oregon State University	8,651	0	892	196	2,574	1,074	495	630	2,790
72 Florida International U	8,576	0	257	0	429	600	343	0	6,947
73 Florida Atlantic U	8,496	0	0	0	0	1,148	152	0	7,196
74 Lehigh University	8,460	0	0	1,114	1,849	2,110	1,396	1,562	429
75 Northeastern University	8,250	0	0	2,547	529	4,046	541	0	587
76 Colorado State University	8,162	0	1,232	971	2,878	1,644	812	0	625
77 SUNY at Stony Brook	8,098	0	60	0	0	2,041	2,423	3,574	0
78 Old Dominion University	7,558	985	0	0	292	4,531	990	0	760
79 University of Notre Dame	7,346	1,976	0	1,343	1,413	2,614	0	0	0
80 George Washington U	7,195	82	0	79	1,122	4,089	1	0	1,822
Total, 1st 80 institutions	2,178,885	152,682	74,898	149,306	179,490	600,846	321,438	202,888	497,337
81 U of Missouri Rolla	7,161	426	0	9	1,304	1,812	863	2,323	424
82 Florida State University	7,159	0	0	122	854	243	5,889	20	31
83 Dartmouth College	7,112	0	0	0	709	2,342	1,345	0	2,716
84 NC A&T State University	6,954	0	0	731	1,483	1,700	1,878	0	1,162
85 Syracuse University	6,844	83	1,305	530	824	2,107	471	132	1,392
86 U MA Amherst	6,800	0	0	1,384	561	3,149	1,544	0	162
87 University of Pittsburgh	6,595	0	323	2,469	137	829	349	1,992	496
88 U of Arkansas Main	6,504	0	0	356	643	3,346	741	0	1,418
89 Oklahoma State University	6,465	51	0	496	392	696	1,074	0	3,756
90 Univ of Hawaii at Manoa	6,222	0	0	0	1,005	1,745	1,132	317	2,023
Total, 1st 90 institutions	2,246,701	153,242	76,526	155,403	187,402	618,815	336,724	207,672	510,917

See explanatory information and SOURCE at end of table.

Table B-49. Federally financed R&D expenditures in engineering subfields at universities and colleges: fiscal year 2000

[Dollars in thousands]

Page 3 of 3

Institution and ranking	Total	Aero/ astro- nautical	Bioengin- eering/ Biomed- ical	Chemical	Civil	Elec- trical	Mechan- ical	Metal- lurgical and materials	Other
91 U of Houston Clear Lake	6,194	6,194	0	0	0	0	0	0	0
92 Texas Tech University	6,178	0	0	349	2,526	2,845	27	108	323
93 U of North Dakota	6,094	0	0	60	14	51	4	0	5,965
94 Rice University	6,057	0	1,718	385	1,223	1,669	916	0	146
95 U TX at El Paso	6,024	0	0	0	558	626	212	820	3,808
96 Michigan State University	5,913	0	0	1,465	843	1,237	1,467	273	628
97 NM Inst Mining & Tech	5,912	0	0	2,529	0	200	0	125	3,058
98 University of Houston	5,721	1,091	0	731	728	728	1,204	1,185	54
99 Ohio University	5,643	2,841	0	115	568	1,469	279	29	342
100 Brown University	5,626	399i	0i	432i	444i	1,479i	1,089i	0i	1,783
Total, 1st 100 institutions	2,306,063	163,767	78,244	161,469	194,306	629,119	341,922	210,212	527,024
Total, all other sampled institutions	256,874	12,270	12,003	33,225	37,824	65,399	40,469	15,718	39,966

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-50. R&D expenditures in the physical sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the physical sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Astronomy	Chemistry	Physics	Other
Total, all institutions	2,369,908	2,481,658	2,603,943	2,705,907	390,820	958,942	1,198,725	157,420
1 California Inst of Tech	83,752	86,036	108,136	118,664	42,056	15,538	61,070	0
2 Johns Hopkins U	128,348	131,662	121,817	97,484	28,168	12,616	50,215	6,485
3 MA Institute of Tech	105,971	100,899	92,189	92,198	16,533	18,756	56,131	778
4 U CA Berkeley	74,465	76,164	93,676	90,306	19,425	21,471	49,397	13
5 University of Arizona	83,110	71,248	83,227	83,227	68,160	9,699	5,368	0
6 University of Colorado	40,041	45,369	48,157	71,941	42,092 <i>i</i>	12,251	17,059	539 <i>i</i>
7 Cornell University	54,955	60,854	79,447	70,153	16,767	14,002	37,188	2,196
8 U TX at Austin	51,871	83,029	65,875	56,338	8,545	10,142	36,507	1,144
9 U MD at College Park	54,987	50,105	53,959	53,718	7,073	6,197	24,791	15,657
10 Stanford University	62,903	58,555	54,521	53,222	0	12,859	4,972	35,391
Total, 1st 10 institutions	740,403	763,921	801,004	787,251	248,819	133,531	342,698	62,203
11 U of IL Urbana-Champaign ...	39,270	45,258	48,846	48,612	6,074	17,667	24,871	0
12 U WI-Madison	37,401	38,814	41,526	46,678	4,016	14,758	21,817	6,087
13 U CA Los Angeles	32,665	36,402	41,873	45,035	3,351	13,564	27,683	437
14 Florida State University	54,209	50,612	41,417	43,626	0	11,631	31,797	198
15 Pennsylvania State U	25,055	25,966	37,420	42,461	5,313	16,075	18,668	2,405
16 U of Alaska Fairbanks	13,473 <i>i</i>	14,507 <i>i</i>	32,102	37,044	12,691	3,621	19,096	1,636
17 Michigan State University	28,738	30,143	31,712	35,882	0	7,180	28,702	0
18 University of Chicago	28,594	29,352	34,942	35,534	15,953	8,676	10,447	458
19 U CA San Diego	35,297	37,948	36,154	33,652	8,389	9,831	13,057	2,375
20 Harvard University	22,040	27,527	30,424	32,530	3,121	16,957	10,173	2,279
Total, 1st 20 institutions	1,057,145	1,100,450	1,177,420	1,188,305	307,727	253,491	549,009	78,078
21 Indiana University	26,206	21,275	25,926	29,682	814	10,812	18,017	39
22 U of Washington	19,729	22,595	26,090	27,122	2,865	9,167	15,090	0
23 Princeton University	28,337	28,114	28,018	27,100	3,881	9,850	13,369	0
24 Univ of Hawaii at Manoa	19,855	26,192	24,828	26,699	22,056	2,035	2,592	16
25 Columbia U in City of NY	21,789	24,154	21,500	26,104	3,530	7,072	2,359	13,143
26 SUNY at Stony Brook	21,382	23,978	24,363	24,797	1,508	6,774	16,515	0
27 U of Pennsylvania	26,132	24,546	24,775	24,780	0	12,886	11,894	0
28 University of Minnesota	17,439	17,404	17,382	24,475	2,596	8,472	13,407	0
29 Ohio State University	18,826	19,733	19,535	24,446	1,651	13,141	9,549	105
30 Texas A&M University	22,927	20,765	28,733	24,131	0	15,385	7,568	1,178
Total, 1st 30 institutions	1,279,767	1,329,206	1,418,570	1,447,641	346,628	349,085	659,369	92,559
31 U CA Santa Cruz	21,905	22,681	22,600	23,844	13,008	5,610	5,226	0
32 Rutgers the State U NJ	19,797	20,261	22,632	23,768	0	12,351	11,417	0
33 U CA Santa Barbara	17,988	18,068	21,057	23,459	0	7,056	16,394	9
34 University of Michigan	22,831	23,072	21,915	23,407	7,030	9,009	6,837	531
35 Georgia Institute of Tech	20,384	21,968	19,539	21,141	0	9,962	11,179	0
36 NC State University	11,672	15,387	15,759	20,814	0	7,813	11,036	1,965
37 Northwestern University	11,913	15,888	18,142	20,408	0	11,373	5,061	3,974
38 Purdue University	21,122	22,130	21,007	20,095	0	11,260	8,835	0
39 U MA Amherst	22,167	23,045	18,041	20,094	0	11,267	8,238	589
40 University of Florida	16,453	21,774	21,498	20,005	1,901	10,070	7,652	382
Total, 1st 40 institutions	1,465,999	1,533,480	1,620,760	1,664,676	368,567	444,856	751,244	100,009
41 Arizona State University	17,559	19,916	19,937	19,021	217	8,979	3,893	5,932
42 Yale University	15,988	17,397	18,596	18,830	948	6,888	10,994	0
43 U CA Davis	11,208	13,053	14,193	18,183	0	5,972	4,772	7,439
44 U of NC Chapel Hill	10,360	11,750	15,851	17,580	0	10,080	7,500	0
45 Louisiana State U System	13,576	13,540	16,153	17,479	0	8,543	8,929	7
46 U CA Irvine	18,224	17,542	17,328	16,519	0	9,683	6,800	36
47 U of Iowa	17,241	15,049	14,766	15,985	1,143	3,560	11,282	0
48 University of Oklahoma	10,382	12,401	12,958	15,549	0	12,512	3,037	0
49 University of Utah	12,085	11,105	13,983	15,453	0	8,420	4,051	2,982
50 University of Notre Dame	11,382	13,158	13,360	15,252	0	10,010	5,242	0
Total, 1st 50 institutions	1,604,004	1,678,391	1,777,885	1,834,527	370,875	529,503	817,744	116,405

See explanatory information and SOURCE at end of table.

Table B-50. R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2000 R&D expenditures in the physical sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Astronomy	Chemistry	Physics	Other
51 U of Central Florida	10,436	9,795	10,970	13,656	0	4,146	9,510	0
52 University of Rochester	13,000	13,815	13,049	13,461	1,544	4,097	7,820	0
53 Duke University	12,604	15,187	17,061	13,288	0	4,210	9,078	0
54 University of Virginia	11,655	11,639	12,550	13,233	1,277	7,951	3,986	19
55 U of South Carolina	8,906	11,655	12,078	12,921	0	9,321	3,600	0
56 Vanderbilt University	8,625	10,725	14,698	12,865	0	3,227	9,638	0
57 Boston University	11,973	12,897	11,945	12,569	1,137	2,228	4,417	4,787
58 Northeastern University	4,572	6,158	6,722	12,507	0	3,044	9,463	0
59 U CA San Francisco	0	0	0	12,332	0	12,332	0	0
60 University of Pittsburgh	11,805	10,108	10,668	11,914	502	7,459	3,929	24
Total, 1st 60 institutions	1,697,580	1,780,370	1,887,626	1,963,273	375,335	587,518	879,185	121,235
61 Rice University	8,820	9,187	10,698	11,909	2,414	6,605	2,890	0
62 Wayne State University	9,358	10,777	11,190	11,683	0	5,760	5,923	0
63 University of Delaware	8,888	9,466	10,144	11,038	0	5,418	1,820	3,800
64 University of New Mexico	7,409	10,518	8,679	11,000	0	2,725	8,172	103
65 U of Tennessee System	11,130	11,586	12,404	10,933	0	3,660	7,273	0
66 U of Nebraska at Lincoln	5,387	5,467i	10,463	10,888	0	6,062	4,826	0
67 Montana St U Bozeman	4,918	6,682	7,279	10,712	0	4,331	6,381	0
68 Washington University	8,967	8,942	10,457	10,535	0	4,975	5,560	0
69 SUNY at Albany	4,638	6,201	8,051	10,423	0	1,483	8,940	0
70 VA Polytech Inst & St U	9,969	9,015	8,030	10,223	0	7,724	1,842	657
Total, 1st 70 institutions	1,777,064	1,868,211	1,985,021	2,072,617	377,749	636,261	932,812	125,795
71 University of Kansas	9,862	10,356	11,388	10,207	301	7,134	1,856	916
72 U Mississippi, All Camp	3,751	4,111	4,411	10,177	0	672	9,505	0
73 U of Southern California	9,958	11,068	10,415	10,177	234	7,551	2,392	0
74 University of Georgia	9,416	10,061	9,866	10,068	0	6,560	3,508	0
75 SUNY at Buffalo	7,801	10,913	10,338	9,790	0	6,852	2,407	531
76 Iowa State University	9,439	9,599	9,105	9,232	0	5,139	4,093	0
77 U of Maine	1,030	1,941	4,321	9,028	0	1,142	7,886	0
78 Brown University	9,050	8,005	8,027	8,806	0	4,140	4,666	0
79 University of Houston	7,793	7,770	9,102	8,571	0	5,411	2,822	338
80 Colorado State University	8,943	10,450	8,514	8,469	0	5,666	2,680	123
Total, 1st 80 institutions	1,854,107	1,952,485	2,070,508	2,167,142	378,284	686,528	974,627	127,703
81 Emory University	8,049	5,989	6,304	8,355	0	7,155	1,200	0
82 University of Akron	8,443	8,380	6,820	8,279	0	8,214	65	0
83 U of IL Chicago	7,567	8,597	8,317	8,186	0	4,075	4,111	0
84 U of Alabama Huntsville	8,320	6,447	8,624	8,185	0	1,837	6,348	0
85 University of Kentucky	3,688	5,386	5,623	8,068	0	4,787	3,281	0
86 Kansas State University	7,766	7,348	7,916	8,062	0	2,345	5,717	0
87 Carnegie Mellon U	8,293	8,485	8,586	7,942	0	2,033	5,041	868
88 Boston College	4,042	4,410	6,377	7,638	0	5,230	2,408	0
89 U CA Riverside	5,616	6,516	6,883	7,627	0	4,422	3,205	0
90 University of Oregon	6,706	7,325	7,728	7,267	0	3,265	4,002	0
Total, 1st 90 institutions	1,922,597	2,021,368	2,143,686	2,246,751	378,284	729,891	1,010,005	128,571

See explanatory information and SOURCE at end of table.

**Table B-50. R&D expenditures in the physical sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the physical sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 3 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Astronomy	Chemistry	Physics	Other
91 University of Connecticut	4,352	4,253	4,671	7,097	0	3,689	3,408	0
92 Clemson University	4,800	5,769	6,049	6,996	0	3,777	3,219	0
93 Catholic U of America	4,842	5,094	7,987	6,628	0	620	1,377	4,631
94 Kent State University	7,055	8,213	6,844	6,620	0	907	1,525	4,188
95 Case Western Reserve U	5,978	8,183	6,525	6,496	248	4,494	1,754	0
96 Colorado School of Mines	3,089	3,784	4,199	6,318	0	1,053	5,265	0
97 Oklahoma State University ...	5,002	5,432	7,005	6,282	0	2,468	3,642	172
98 CUNY City College	8,949	8,273	6,843	6,253	0	2,512	3,377	364
99 U of Nevada Reno	2,527	2,598	4,993	5,895	4	1,155	2,908	1,828
100 Virginia Commonwealth U ...	3,040	3,392	4,140	5,877	0	5,338	539	0
Total, 1st 100 institutions	1,972,231	2,076,359	2,202,942	2,311,213	378,536	755,904	1,037,019	139,754
Total, all other sampled institutions	397,677	405,299	401,001	394,694	12,284	203,038	161,706	17,666

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-51. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the physical sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Astronomy	Chemistry	Physics	Other
Total, all institutions	1,682,429	1,760,874	1,860,139	1,912,089	281,723	628,716	896,080	105,570
1 California Inst of Tech	80,025	85,615	103,926	109,631	42,056	12,196	55,379	0
2 Johns Hopkins U	124,228	129,077	119,458	95,181	26,943	12,217	49,549	6,472
3 MA Institute of Tech	97,740	88,749	89,506	89,453	16,496	16,690	55,491	776
4 University of Colorado	24,307	30,826	35,611	63,975	38,073 <i>i</i>	10,281	15,184	437 <i>i</i>
5 U CA Berkeley	44,972	41,521	55,380	53,882	3,877	15,774	34,223	8
6 Cornell University	42,486	42,519	64,965	53,842	13,342	9,103	30,174	1,223
7 University of Arizona	49,995	43,855	53,756	50,078	38,449	7,265	4,364	0
8 Stanford University	58,039	54,226	49,719	48,463	0	10,973	4,697	32,793
9 U TX at Austin	38,712	73,686	48,402	41,510	3,823	5,749	31,781	157
10 U MD at College Park	28,373	31,953	32,933	34,162	5,953	5,060	16,989	6,160
Total, 1st 10 institutions	588,877	622,027	653,656	640,177	189,012	105,308	297,831	48,026
11 U of IL Urbana-Champaign ...	29,002	31,570	32,938	33,653	4,106	10,294	19,253	0
12 University of Chicago	25,455	26,486	32,554	31,905	15,511	6,519	9,875	0
13 U WI-Madison	26,782	28,330	28,915	31,742	2,445	8,094	16,927	4,276
14 Harvard University	19,797	26,770	29,956	29,920	3,121	14,788	9,823	2,188
15 U CA Los Angeles	22,813	24,211	27,925	29,115	1,294	10,432	17,389	0
16 Pennsylvania State U	16,191	14,039	23,617	27,124	4,093	9,797	13,234	0
17 Columbia U in City of NY	19,636	21,098	20,581	25,462	3,528	6,747	2,302	12,885
18 U CA San Diego	28,344	28,576	27,724	25,391	6,689	7,251	9,776	1,675
19 Michigan State University	18,594	19,658	20,998	25,026	0	4,486	20,540	0
20 U of Pennsylvania	22,194	23,326	22,655	22,163	0	11,992	10,171	0
Total, 1st 20 institutions	817,685	866,091	921,519	921,678	229,799	195,708	427,121	69,050
21 Florida State University	28,615	25,596	22,962	21,881	0	4,229	17,463	189
22 U of Alaska Fairbanks	6,967 <i>i</i>	7,805 <i>i</i>	16,116	21,678	6,722	959	13,670	327
23 U of Washington	13,804	16,608	19,299	20,168	1,310	6,493	12,365	0
24 University of Michigan	16,389	17,171	17,108	18,693	5,575	7,317	5,608	193
25 University of Minnesota	14,998	14,874	14,357	18,442	2,252	6,122	10,068	0
26 Princeton University	20,299	19,863	20,381	18,039	1,425	6,068	10,546	0
27 Indiana University	20,317	17,336	17,701	17,177	259	5,988	10,922	8
28 U CA Santa Barbara	14,601	13,938	16,479	17,170	0	4,946	12,215	9
29 SUNY at Stony Brook	14,758	16,404	16,514	16,751	1,134	4,773	10,844	0
30 Yale University	14,081	15,267	16,174	15,835	530	5,369	9,936	0
Total, 1st 30 institutions	982,514	1,030,953	1,098,610	1,107,512	249,006	247,972	540,758	69,776
31 Northwestern University	8,592	10,954	12,193	14,565	0	8,865	3,577	2,123
32 Univ of Hawaii at Manoa	10,432	12,873	12,752	14,039	10,083	1,603	2,353	0
33 U of NC Chapel Hill	7,199	8,181	12,453	13,796	0	7,556	6,240	0
34 University of Notre Dame	9,684	11,410	11,755	13,117	0	8,826	4,291	0
35 U CA Davis	8,628	8,968	9,574	12,936	0	4,752	3,133	5,051
36 Purdue University	13,538	14,045	13,162	12,804	0	6,958	5,846	0
37 Ohio State University	12,647	11,209	11,827	12,728	1,167	5,529	6,032	0
38 Rutgers the State U NJ	10,316	10,537	12,310	12,579	0	8,071	4,508	0
39 University of Rochester	12,123	12,645	12,076	12,455	1,488	3,493	7,474	0
40 U of Iowa	12,493	11,749	11,564	12,384	1,015	2,232	9,137	0
Total, 1st 40 institutions	1,088,166	1,143,524	1,218,276	1,238,915	262,759	305,857	593,349	76,950
41 University of Florida	9,008	10,061	13,638	12,162	1,401	6,088	4,673	0
42 Boston University	9,855	10,550	11,472	12,004	1,098	2,070	4,374	4,462
43 Texas A&M University	12,435	11,139	11,842	11,732	0	6,986	4,255	491
44 U CA Irvine	12,916	12,479	12,187	11,410	0	6,979	4,431	0
45 Duke University	10,770	12,906	14,936	11,171	0	2,403	8,768	0
46 Northeastern University	4,300	5,474	5,036	11,091	0	2,406	8,685	0
47 Vanderbilt University	7,273	9,043	13,027	10,673	0	2,910	7,763	0
48 University of Virginia	10,162	10,171	10,705	10,516	1,082	6,012	3,422	0
49 U MA Amherst	14,079	13,750	9,026	10,292	0	5,667	4,612	13
50 University of Pittsburgh	9,787	8,348	9,009	10,273	489	6,436	3,326	22
Total, 1st 50 institutions	1,188,751	1,247,445	1,329,154	1,350,239	266,829	353,814	647,658	81,938

See explanatory information and SOURCE at end of table.

Table B-51. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the physical sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

Page 2 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Astronomy	Chemistry	Physics	Other
51 University of Utah	10,714	9,158	12,515	10,264	0	7,172	3,092	0
52 Louisiana State U System	7,221	8,015	9,094	9,796	0	5,254	4,542	0
53 Rice University	7,081	7,225	8,674	9,784	2,369	4,856	2,559	0
54 U Mississippi, All Camp	2,917	3,206	3,859	9,574	0	549	9,025	0
55 NC State University	6,728	8,565	6,258	9,498	0	4,016	5,481	1
56 U CA Santa Cruz	8,210	8,323	8,250	9,449	2,434	3,557	3,458	0
57 Arizona State University	8,939	9,996	9,978	9,177	0	4,304	2,802	2,071
58 U CA San Francisco	0	0	0	9,033	0	9,033	0	0
59 University of Oklahoma	4,932	6,079	6,383	8,894	0	7,377	1,517	0
60 Georgia Institute of Tech	9,549	9,631	8,362	8,759	0	4,127	4,632	0
Total, 1st 60 institutions	1,255,042	1,317,643	1,402,527	1,444,467	271,632	404,059	684,766	84,010
61 University of New Mexico	5,027	7,997	7,562	8,668	0	2,127	6,459	82
62 Montana St U Bozeman	4,053	5,355	5,718	8,079	0	2,869	5,210	0
63 U of South Carolina	5,554	7,236	7,007	8,076	0	5,826	2,250	0
64 University of Delaware	5,927	6,868	7,113	7,945	0	3,576	1,030	3,339
65 U of Southern California	8,270	8,799	8,099	7,862	179	5,762	1,921	0
66 Washington University	7,178	6,770	7,644	7,848	0	3,643	4,205	0
67 Kansas State University	5,109	5,819	6,181	6,605	0	1,652	4,953	0
68 U of Maine	294	737	3,654	6,459	0	229	6,230	0
69 U of Tennessee System	6,620	7,175	7,641	6,445	0	2,137	4,308	0
70 University of Kansas	4,642	5,484	5,693	6,345	275	4,725	1,343	2
Total, 1st 70 institutions	1,307,716	1,379,883	1,468,839	1,518,799	272,086	436,605	722,675	87,433
71 Colorado State University	7,538	7,529	6,706	6,338	0	4,230	2,052	56
72 Carnegie Mellon U	5,539	5,728	5,804	6,276	0	1,622	4,342	312
73 University of Oregon	5,542	6,034	6,503	6,075	0	2,614	3,461	0
74 Colorado School of Mines	2,544	2,510	3,430	5,842	0	896	4,946	0
75 Catholic U of America	3,809	3,865	7,042	5,737	0	421	1,347	3,969
76 Emory University	5,808	4,701	4,845	5,658	0	4,917	741	0
77 U of Alabama Huntsville	6,613	4,940	6,235	5,626	0	1,023	4,603	0
78 U CA Riverside	4,893	5,299	4,966	5,578	0	3,053	2,525	0
79 U of Nebraska at Lincoln	4,206	4,269i	5,508	5,504	0	3,397	2,107	0
80 Boston College	3,064	3,420	4,708	5,424	0	3,914	1,510	0
Total, 1st 80 institutions	1,357,272	1,428,178	1,524,586	1,576,857	272,086	462,692	750,309	91,770
81 U of IL Chicago	3,881	4,840	4,801	5,412	0	2,765	2,647	0
82 Wayne State University	4,167	4,376	4,399	5,114	0	3,984	1,130	0
83 University of Kentucky	3,142	3,422	3,319	5,029	0	3,159	1,870	0
84 CUNY City College	7,086	6,683	5,538	4,995	0	2,327	2,627	41
85 New Mexico Highlands U	1,600i	1,627i	1,355	4,974	0	2,437	2,537	0
86 Brown University	4,983	4,117	4,179	4,771	0	2,290	2,481	0
87 VA Polytech Inst & St U	5,634	4,852	4,607	4,766	0	3,435	904	427
88 Syracuse University	4,859i	5,954	5,249	4,736	0	1,997	2,629	110
89 Iowa State University	5,272	5,258	4,528	4,714	0	2,272	2,442	0
90 U of Nevada Reno	1,702	1,752	3,774	4,659	4	777	2,908	970
Total, 1st 90 institutions	1,399,598	1,471,059	1,566,335	1,626,027	272,090	488,135	772,484	93,318

See explanatory information and SOURCE at end of table.

Table B-51. Federally financed R&D expenditures in the physical sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the physical sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

Page 3 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Astronomy	Chemistry	Physics	Other
91 Kent State University	4,606	5,274	5,414	4,643	0	444	1,057	3,142
92 Oregon State University	4,909	5,123	4,652	4,553	0	3,919	634	0
93 SUNY at Buffalo	4,571	5,380	5,312	4,448	0	3,403	724	321
94 Rensselaer Polytech Inst	3,294 i	4,579	4,455	4,402	0	2,511	1,891	0
95 Case Western Reserve U	4,489	5,044	5,413	4,297	175	2,700	1,422	0
96 Washington State U	3,222	3,615	4,258	4,090	0	2,013	2,077	0
97 Temple University	1,347	1,046	1,264	4,072	0	853	3,219	0
98 Clark Atlanta University	4,903	4,562	2,295 i	4,060	0	589	3,471	0
99 Georgetown University	3,530	3,364	4,372	3,980	0	3,634	346	0
100 New York University	3,773	3,557	4,288	3,897	0	2,068	1,829	0
Total, 1st 100 institutions	1,438,242	1,512,603	1,608,058	1,668,469	272,265	510,269	789,154	96,781
Total, all other sampled institutions	244,187	248,271	252,081	243,620	9,458	118,447	106,926	8,789

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-52. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in chemistry: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	820,120	875,506	918,197	958,942	551,381	586,612	615,896	628,716
1 U CA Berkeley	18,305	20,638	21,071	21,471	13,714	14,637	14,195	15,774
2 MA Institute of Tech	9,440	11,050	17,050	18,756	8,823	9,201	15,244	16,690
3 U of IL Urbana-Champaign	13,606	18,038	19,426	17,667	8,174	11,436	11,621	10,294
4 Harvard University	9,495	11,185	14,112	16,957	8,128	10,639	13,890	14,788
5 Pennsylvania State U	12,883	16,075	15,962	16,075	8,631	8,852	9,727	9,797
6 California Inst of Tech	17,600	17,760	16,310	15,538	15,200	17,629	13,829	12,196
7 Texas A&M University	11,133	9,560	17,576	15,385	6,252	5,211	5,571	6,986
8 U WI-Madison	11,437	12,011	13,196	14,758	7,693	7,695	8,287	8,094
9 Cornell University	11,380	12,031	14,132	14,002	8,065	8,682	9,633	9,103
10 U CA Los Angeles	10,220	11,769	13,158	13,564	8,728	9,521	10,604	10,432
Total, 1st 10 institutions	125,499	140,117	161,993	164,173	93,408	103,503	112,601	114,154
11 Ohio State University	9,291	9,679	8,110	13,141	6,291	5,069	4,629	5,529
12 U of Pennsylvania	11,579	11,669	10,994	12,886	10,423	11,283	10,624	11,992
13 Stanford University	12,199	12,306	11,835	12,859	10,449	10,658	9,778	10,973
14 Johns Hopkins U	9,264	18,541	18,297	12,616	8,981	18,280	17,961	12,217
15 University of Oklahoma	8,057	9,922	10,225	12,512	3,545	4,656	4,817	7,377
16 Rutgers the State U NJ	8,130	9,622	11,543	12,351	5,763	6,790	7,673	8,071
17 U CA San Francisco	0	0	0	12,332	0	0	0	9,033
18 University of Colorado	11,026	12,948	11,889	12,251	8,762	10,446	9,618	10,281
19 Florida State University	7,534	7,890	9,395	11,631	3,950	3,304	4,536	4,229
20 Northwestern University	7,848	9,843	10,471	11,373	5,166	7,096	8,126	8,865
Total, 1st 20 institutions	210,427	242,537	264,752	288,125	156,738	181,085	190,363	202,721
21 U MA Amherst	10,650	11,131	10,269	11,267	5,894	6,240	4,921	5,667
22 Purdue University	12,254	12,548	12,021	11,260	8,260	8,212	7,523	6,958
23 Indiana University	10,889	7,982	8,202	10,812	7,750	6,047	5,733	5,988
24 U TX at Austin	11,328	11,397	11,159	10,142	6,872	7,123	6,547	5,749
25 U of NC Chapel Hill	7,788	8,368	8,583	10,080	5,672	5,905	6,159	7,556
26 University of Florida	9,779	11,675	11,034	10,070	5,332	5,309	7,682	6,088
27 University of Notre Dame	7,053	8,658	9,006	10,010	6,390	7,740	7,998	8,826
28 Georgia Institute of Tech	10,816	10,869	8,919	9,962	5,067	4,765	3,817	4,127
29 Princeton University	8,123	8,973	9,477	9,850	5,961	5,727	6,092	6,068
30 U CA San Diego	9,956	10,297	10,725	9,831	7,922	7,802	8,710	7,251
Total, 1st 30 institutions	309,063	344,435	364,147	391,409	221,858	245,955	255,545	266,999
31 University of Arizona	5,045	6,588	8,524	9,699	3,400	4,882	6,396	7,265
32 U CA Irvine	8,724	8,425	10,036	9,683	6,646	6,335	7,289	6,979
33 U of South Carolina	4,645	7,357	7,727	9,321	3,279	4,679	4,849	5,826
34 U of Washington	6,341	7,097	8,100	9,167	4,521	4,978	5,578	6,493
35 University of Michigan	6,834	7,820	7,744	9,009	5,058	6,230	5,862	7,317
36 Arizona State University	8,227	9,583	8,782	8,979	3,760	4,287	4,035	4,304
37 University of Chicago	8,730	8,189	9,484	8,676	7,487	6,671	8,349	6,519
38 Louisiana State U System	5,893	5,752	8,350	8,543	3,105	3,297	5,085	5,254
39 University of Minnesota	7,662	7,574	7,241	8,472	6,290	6,446	5,799	6,122
40 University of Utah	6,366	7,398	9,359	8,420	5,493	6,122	8,668	7,172
Total, 1st 40 institutions	377,530	420,218	449,494	481,378	270,897	299,882	317,455	330,250
41 University of Akron	8,395	8,326	6,775	8,214	2,238	1,497	2,487	2,507
42 University of Virginia	6,219	5,847	6,811	7,951	5,116	4,918	5,774	6,012
43 NC State University	3,267	4,507	4,372	7,813	1,859	2,288	1,998	4,016
44 VA Polytech Inst & St U	7,538	7,037	6,257	7,724	4,105	3,482	3,271	3,435
45 U of Southern California	7,203	7,900	7,545	7,551	5,865	6,089	5,758	5,762
46 University of Pittsburgh	7,316	6,097	6,435	7,459	5,968	4,765	5,270	6,436
47 Michigan State University	5,856	5,507	6,106	7,180	3,935	3,641	3,969	4,486
48 Emory University	7,337	5,230	5,535	7,155	5,338	4,181	4,162	4,917
49 University of Kansas	7,333	7,177	8,800	7,134	3,378	3,805	4,335	4,725
50 Columbia U in City of NY	8,292	8,753	7,377	7,072	6,531	7,849	6,899	6,747
Total, 1st 50 institutions	446,286	486,599	515,507	556,631	315,230	342,397	361,378	379,293

See explanatory information and SOURCE at end of table.

Table B-52. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in chemistry: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 U CA Santa Barbara	4,449	5,620	6,997	7,056	3,861	4,175	5,364	4,946
52 Yale University	6,688	6,997	7,329	6,888	5,863	5,921	5,914	5,369
53 SUNY at Buffalo	5,538	7,426	7,347	6,852	3,410	4,110	4,045	3,403
54 SUNY at Stony Brook	5,439	6,533	7,240	6,774	3,552	4,320	4,892	4,773
55 Rice University	3,990	4,518	5,516	6,605	2,956	3,094	3,892	4,856
56 University of Georgia	6,512	6,118	6,266	6,560	2,472	1,839	1,691	1,736
57 U MD at College Park	9,822	6,635	8,330	6,197	6,039	4,269	4,580	5,060
58 U of Nebraska at Lincoln	3,259	3,308i	6,005	6,062	2,455	2,492i	3,387	3,397
59 U CA Davis	3,897	4,562	5,010	5,972	3,153	3,480	4,196	4,752
60 Wayne State University	4,581	5,330	5,841	5,760	2,744	3,116	3,489	3,984
Total, 1st 60 institutions	500,461	543,646	581,388	621,357	351,735	379,213	402,828	421,569
61 Colorado State University	6,378	7,753	6,401	5,666	5,414	5,650	5,072	4,230
62 U CA Santa Cruz	5,288	4,448	4,793	5,610	3,598	2,774	3,133	3,557
63 University of Delaware	4,286	4,243	4,711	5,418	2,553	2,877	2,735	3,576
64 University of Houston	4,898	5,008	5,891	5,411	2,094	2,537	3,077	2,437
65 Virginia Commonwealth U	2,512	2,799	3,604	5,338	1,106	1,395	1,928	2,936
66 Boston College	3,595	3,942	5,549	5,230	2,885	3,087	4,120	3,914
67 Iowa State University	5,567	6,003	5,023	5,139	2,902	3,107	2,158	2,272
68 Washington University	4,504	4,321	5,323	4,975	3,738	3,376	3,921	3,643
69 Oregon State University	4,386	4,996	4,860	4,812	3,741	4,110	4,206	3,919
70 University of Kentucky	1,780	2,614	2,760	4,787	1,506	1,662	1,574	3,159
Total, 1st 70 institutions	543,655	589,773	630,303	673,743	381,272	409,788	434,752	455,212
71 Mississippi State U	2,316	2,575	2,289	4,643	1,640	1,589	1,238	1,179
72 Georgetown University	4,613	4,868	5,176e	4,569	3,438	3,170	4,137	3,634
73 Case Western Reserve U	3,665	5,307	4,379	4,494	2,735	3,095	3,661	2,700
74 U CA Riverside	3,257	3,495	4,028	4,422	2,891	2,861	2,810	3,053
75 Montana St U Bozeman	2,032	2,961	3,180	4,331	1,819	2,596	2,507	2,869
76 Duke University	3,591	4,485	3,851	4,210	2,498	2,767	2,187	2,403
77 U of Central Florida	638	522	1,416	4,146	102	347	736	824
78 Brown University	3,691	3,450	3,638	4,140	1,971	1,793	1,909	2,290
79 University of Rochester	6,469	6,734	5,405	4,097	6,026	6,120	4,901	3,493
80 U of IL Chicago	4,318	3,244	3,770	4,075	2,246	2,158	2,064	2,765
Total, 1st 80 institutions	578,245	627,414	667,435	716,870	406,638	436,284	460,902	480,422
81 U Southern Mississippi	4,693	4,315	3,902	3,960	3,770	3,245	2,667	2,861
82 Clemson University	2,558	2,865	3,294	3,777	855	896	897	1,029
83 University of Connecticut	2,185	2,145	2,155	3,689	564	794	1,044	1,836
84 U of Tennessee System	3,841	3,963	4,333	3,660	2,163	2,433	2,764	2,137
85 U of Alaska Fairbanks	1,295i	1,362i	3,138i	3,621	308i	345i	713i	959
86 U of Iowa	3,332	3,421	3,505	3,560	1,912	2,125	2,361	2,232
87 North Dakota State U	4,214	4,403	4,414	3,467	933	2,621	3,249	2,606
88 OR Grad Inst Sci & Tech	2,876	3,020e	3,517	3,414	2,569	2,697e	3,214	3,170
89 Texas Tech University	3,517	3,877	4,483	3,358	1,146	1,029	1,781	732
90 CUNY Hunter College	2,318	2,956	3,469	3,344	1,537	1,823	2,164	2,267
Total, 1st 90 institutions	609,074	659,741	703,645	752,720	422,395	454,292	481,756	500,251

See explanatory information and SOURCE at end of table.

Table B-52. Total and federally financed R&D expenditures in chemistry at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in chemistry: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 U of Missouri Rolla	2,837	3,061	4,126	3,298	1,049	908	1,312	1,514
92 University of Oregon	2,491	2,923	3,071	3,265	2,179	2,432	2,566	2,614
93 Vanderbilt University	2,930	3,068	2,873	3,227	2,344	2,506	2,499	2,910
94 U of Missouri Columbia	3,138	2,670	3,083	3,133	1,103	1,181	1,448	1,228
95 Jackson State University	800	830	2,736	3,127	596	713	2,458	2,790
96 Utah State University	2,189	2,180	2,710	3,116	1,525	1,491	1,725	2,356
97 Northeastern University	2,007	2,642	2,566	3,044	1,821	2,135	1,887	2,406
98 Rensselaer Polytech Inst	3,328 <i>i</i>	2,690	2,931	3,035	2,004 <i>i</i>	2,317	2,317	2,511
99 Brigham Young University	2,022 <i>e</i>	2,103	2,588	2,840	1,191 <i>i</i>	1,872	1,871	1,893
100 New York University	4,708	5,415	4,112	2,838	2,311	2,056	2,741	2,068
Total, 1st 100 institutions	635,524	687,323	734,441	783,643	438,518	471,903	502,580	522,541
Total, all other sampled institutions	184,596	188,183	183,756	175,299	112,863	114,709	113,316	106,175

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-53. Total and federally financed R&D expenditures in physics
at universities and colleges, ranked by fiscal year 2000 total
R&D expenditures in physics: fiscal years 1997-2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	1,058,208	1,078,127	1,143,826	1,198,725	803,085	817,724	862,347	896,080
1 California Inst of Tech	56,972	57,992	45,343	61,070	55,933	57,790	44,186	55,379
2 MA Institute of Tech	90,357	83,416	55,054	56,131	84,623	75,875	54,205	55,491
3 Johns Hopkins U	71,693	74,433	65,247	50,215	70,382	73,601	64,556	49,549
4 U CA Berkeley	41,325	37,263	53,113	49,397	27,949	23,724	37,628	34,223
5 Cornell University	34,248	35,255	38,721	37,188	30,323	30,184	33,610	30,174
6 U TX at Austin	12,013	15,293	44,967	36,507	8,635	12,278	37,271	31,781
7 Florida State University	12,020	10,348	31,861	31,797	5,119	4,174	18,284	17,463
8 Michigan State University	22,882	24,636	25,606	28,702	14,659	16,017	17,029	20,540
9 U CA Los Angeles	22,445	20,943	25,023	27,683	14,085	13,465	16,193	17,389
10 U of IL Urbana-Champaign	9,983	21,928	23,569	24,871	8,290	16,908	17,628	19,253
Total, 1st 10 institutions	373,938	381,507	408,504	403,561	319,998	324,016	340,590	331,242
11 U MD at College Park	28,617	27,699	26,869	24,791	14,307	17,999	16,990	16,989
12 U WI-Madison	15,020	16,192	18,187	21,817	11,620	13,343	14,600	16,927
13 U of Alaska Fairbanks	6,991 i	7,599 i	16,548 i	19,096	4,393 i	4,922 i	10,163 i	13,670
14 Pennsylvania State U	7,139	5,532	15,964	18,668	4,507	2,962	11,165	13,234
15 Indiana University	14,002	12,613	17,050	18,017	11,724	10,922	11,674	10,922
16 University of Colorado	9,912	9,983	10,396	17,059	8,110	8,487	8,855	15,184
17 SUNY at Stony Brook	14,427	16,078	15,406	16,515	9,950	10,826	10,555	10,844
18 U CA Santa Barbara	9,059	12,448	14,060	16,394	7,322	9,763	11,115	12,215
19 U of Washington	8,919	11,303	13,549	15,090	7,580	9,859	11,497	12,365
20 University of Minnesota	7,317	7,054	7,625	13,407	6,545	5,948	6,493	10,068
Total, 1st 20 institutions	495,341	508,008	564,158	584,415	406,056	419,047	453,697	463,660
21 Princeton University	15,120	15,542	14,923	13,369	11,710	12,188	12,566	10,546
22 U CA San Diego	16,640	16,504	14,206	13,057	13,464	13,073	10,920	9,776
23 U of Pennsylvania	14,553	12,877	13,781	11,894	11,771	12,043	12,031	10,171
24 Rutgers the State U NJ	11,667	10,639	11,089	11,417	4,553	3,747	4,637	4,508
25 U of Iowa	12,518	10,488	10,135	11,282	9,523	8,662	8,282	9,137
26 Georgia Institute of Tech	9,568	11,097	10,620	11,179	4,482	4,865	4,545	4,632
27 NC State University	8,400	10,861	11,387	11,036	4,869	6,277	4,260	5,481
28 Yale University	8,521	9,619	10,474	10,994	7,795	8,910	9,736	9,936
29 University of Chicago	8,435	8,112	8,940	10,447	7,632	7,567	8,352	9,875
30 Harvard University	9,837	8,957	10,456	10,173	9,430	8,883	10,314	9,823
Total, 1st 30 institutions	610,600	622,704	680,169	699,263	491,285	505,262	539,340	547,545
31 Vanderbilt University	5,695	7,657	11,825	9,638	4,929	6,537	10,528	7,763
32 Ohio State University	8,502	8,725	9,932	9,549	5,583	5,188	6,237	6,032
33 U of Central Florida	9,798	9,273	9,554	9,510	4,272	3,953	3,148	2,282
34 U Mississippi, All Camp	2,841	3,254	3,896	9,505	2,345	2,635	3,477	9,025
35 Northeastern University	2,565	3,516	4,156	9,463	2,479	3,339	3,149	8,685
36 Duke University	9,013	10,702	13,210	9,078	8,272	10,139	12,749	8,768
37 SUNY at Albany	3,356	4,903	6,697	8,940	955	1,631	1,285	653
38 Louisiana State U System	7,114	7,155	6,982	8,929	4,116	4,718	4,009	4,542
39 Purdue University	8,868	9,582	8,986	8,835	5,278	5,833	5,639	5,846
40 U MA Amherst	10,603	11,238	7,243	8,238	8,185	7,510	4,105	4,612
Total, 1st 40 institutions	678,955	698,709	762,650	790,948	537,699	556,745	593,666	605,753
41 University of New Mexico	4,367	7,409	5,448	8,172	3,456	5,840	5,085	6,459
42 U of Maine	666	1,364	3,932	7,886	170	542	3,367	6,230
43 University of Rochester	5,970	5,259	6,723	7,820	5,553	4,774	6,289	7,474
44 University of Florida	5,573	8,025	8,275	7,652	2,952	3,904	4,801	4,673
45 Texas A&M University	6,691	6,963	8,683	7,568	4,152	3,862	5,301	4,255
46 U of NC Chapel Hill	2,572	3,382	7,268	7,500	1,527	2,276	6,294	6,240
47 U of Tennessee System	7,289	7,623	8,071	7,273	4,457	4,742	4,877	4,308
48 University of Michigan	13,677	13,187	6,509	6,837	9,919	9,695	5,166	5,608
49 U CA Irvine	9,449	9,068	7,240	6,800	6,270	6,144	4,898	4,431
50 Montana St U Bozeman	2,886	3,721	4,099	6,381	2,234	2,759	3,211	5,210
Total, 1st 50 institutions	738,095	764,710	828,898	864,837	578,389	601,283	642,955	660,641

See explanatory information and SOURCE at end of table.

**Table B-53. Total and federally financed R&D expenditures in physics
at universities and colleges, ranked by fiscal year 2000 total
R&D expenditures in physics: fiscal years 1997-2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 U of Alabama Huntsville	5,807	4,730	6,916	6,348	4,715	3,564	5,220	4,603
52 Wayne State University	4,777	5,447	5,349	5,923	1,423	1,260	910	1,130
53 Kansas State University	4,819	5,394	5,395	5,717	3,952	4,478	4,311	4,953
54 Washington University	4,463	4,621	5,134	5,560	3,440	3,394	3,723	4,205
55 University of Arizona	20,525	4,371	4,280	5,368	12,386	3,288	3,233	4,364
56 Colorado School of Mines	2,568	2,520	3,348	5,265	2,160	2,069	2,979	4,946
57 University of Notre Dame	4,329	4,500	4,354	5,242	3,294	3,670	3,757	4,291
58 U CA Santa Cruz	4,347	5,511	5,326	5,226	3,030	4,034	3,235	3,458
59 Northwestern University	4,064	4,535	4,247	5,061	3,426	3,568	3,404	3,577
60 Carnegie Mellon U	5,077	4,879	4,871	5,041	3,662	3,696	3,725	4,342
Total, 1st 60 institutions	798,871	811,218	878,118	919,588	619,877	634,304	677,452	700,510
61 Stanford University	4,490	4,060	4,777	4,972	4,151	3,836	4,546	4,697
62 U of Nebraska at Lincoln	2,128	2,159 <i>i</i>	4,458	4,826	1,751	1,777 <i>i</i>	2,121	2,107
63 U CA Davis	2,987	4,829	4,892	4,772	2,560	3,548	3,180	3,133
64 Brown University	5,359	4,555	4,389	4,666	3,012	2,324	2,270	2,481
65 Boston University	4,466	4,440	4,034	4,417	4,299	4,033	3,882	4,374
66 U of IL Chicago	3,249	5,353	4,547	4,111	1,635	2,682	2,737	2,647
67 Iowa State University	3,872	3,596	4,082	4,093	2,370	2,151	2,370	2,442
68 University of Utah	5,719	3,707	4,624	4,051	5,221	3,036	3,847	3,092
69 University of Oregon	4,215	4,402	4,657	4,002	3,363	3,602	3,937	3,461
70 University of Virginia	4,433	4,627	4,615	3,986	4,126	4,235	4,043	3,422
Total, 1st 70 institutions	839,789	852,946	923,193	963,484	652,365	665,528	710,385	732,366
71 University of Pittsburgh	3,340	3,141	3,584	3,929	2,796	2,801	3,109	3,326
72 Arizona State University	4,599	4,498	4,579	3,893	3,449	3,370	3,341	2,802
73 U TX MD Anderson Cnrc Ctr ..	2,395	3,445	3,678	3,707	1,948	2,583	2,542	2,670
74 Temple University	952	807	1,112	3,702	750	632	650	3,219
75 Oklahoma State University	2,961	3,765	4,375	3,642	1,327	1,798	1,344	1,088
76 Hampton University	5,311	4,502	5,313	3,637	5,086	4,163	5,009	3,358
77 U of South Carolina	3,992	4,298	4,351	3,600	2,275	2,557	2,158	2,250
78 University of Georgia	2,904	3,943	3,600	3,508	767	1,155	1,095	1,281
79 Clark Atlanta University	2,331	2,800	1,716 <i>i</i>	3,473	2,285	2,425	1,220 <i>i</i>	3,471
80 University of Connecticut	2,167	2,108	2,516	3,408	1,042	1,236	1,584	1,756
Total, 1st 80 institutions	870,741	886,253	958,017	999,983	674,090	688,248	732,437	757,587
81 CUNY City College	4,660	3,937	3,657	3,377	3,383	2,821	2,955	2,627
82 Fisk University	1,651 <i>i</i>	2,323	2,639	3,289	1,651 <i>i</i>	2,323	2,342	2,652
83 University of Kentucky	1,908	2,772	2,863	3,281	1,636	1,760	1,745	1,870
84 Clemson University	2,242	2,904	2,755	3,219	750	909	751	877
85 U CA Riverside	2,359	3,021	2,855	3,205	2,002	2,438	2,156	2,525
86 U MA Lowell	3,346	3,106	3,313	3,194	2,964	2,609	2,628	2,514
87 Ohio University	2,260	2,908	2,999	3,081	1,686	2,148	2,202	2,151
88 U of Arkansas Main	2,708	2,456	1,838	3,043	1,367	1,195	989	1,322
89 University of Oklahoma	2,325	2,479	2,733	3,037	1,387	1,423	1,566	1,517
90 West Virginia University	592	1,855	2,413	3,032	357	1,253	1,704	1,828
Total, 1st 90 institutions	894,792	914,014	986,082	1,031,741	691,273	707,127	751,475	777,470

See explanatory information and SOURCE at end of table.

**Table B-53. Total and federally financed R&D expenditures in physics
at universities and colleges, ranked by fiscal year 2000 total
R&D expenditures in physics: fiscal years 1997-2000**

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 U of Nevada Reno	211	474	2,486	2,908	154	419	2,398	2,908
92 Rice University	2,432	2,604	2,767	2,890	2,249	2,408	2,450	2,559
93 Col of William & Mary	2,464	2,429	2,733	2,860	2,106	2,122	2,392	2,479
94 University of Houston	2,895	2,762	3,211	2,822	1,718	1,514	1,795	1,460
95 U of Nevada Las Vegas	1,131	1,238	1,573	2,756	175	209	467	628
96 Syracuse University	3,501 i	3,882	4,123	2,721	2,967 i	3,870	3,125	2,629
97 Colorado State University	2,515	2,644	2,081	2,680	2,124	1,868	1,630	2,052
98 Univ of Hawaii at Manoa	1,766	2,002	2,179	2,592	1,462	1,722	1,999	2,353
99 New Mexico Highlands U	355 i	362 i	155	2,537	355 i	362 i	155	2,537
100 University of Cincinnati	1,250	1,578	2,129	2,522	857	900	1,221	1,449
Total, 1st 100 institutions	913,312	933,989	1,009,519	1,059,029	705,440	722,521	769,107	798,524
Total, all other sampled institutions	144,896	144,138	134,307	139,696	97,645	95,203	93,240	97,556

KEY: i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-54. R&D expenditures in the environmental sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the environmental sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Atmospheric	Earth sciences	Oceanography	Other
Total, all institutions	1,531,979	1,623,600	1,691,011	1,768,760	288,617	566,414	631,532	282,197
1 U CA San Diego	98,926	100,882	107,958	115,186	19,052	22,584	73,550	0
2 Texas A&M University	70,605	69,912	69,296	85,330	4,210	4,847	67,082	9,191
3 Woods Hole Oceanogr Inst ..	61,516	62,995	58,723	64,910	4,711 i	21,398 i	16,921 i	21,880 i
4 U of Washington	54,545	61,755	60,382	64,112	14,411	7,577	42,124	0
5 University of Colorado	48,055	74,325	71,479	62,769	29,125	32,786	801 i	57
6 Univ of Hawaii at Manoa	37,975	48,594	52,019	51,453	1,436	13,088	24,194	12,735
7 Columbia U in City of NY	36,811	43,154	44,003	49,198	4,692	326	40,546	3,634
8 Johns Hopkins U	32,187	43,528	44,700	37,558	7,461 i	2,502 i	11,946 i	15,649 i
9 U of New Hampshire	25,167	25,772	27,107	36,418	8,263	4,065	11,864	12,226
10 Oregon State University	27,642	30,233	31,385	33,940	1,849	2,449	22,762	6,880
Total, 1st 10 institutions	493,429	561,150	567,052	600,874	95,210	111,622	311,790	82,252
11 Louisiana State U System	21,738	22,684	27,441	31,665	0	6,297	18,675	6,693
12 U MD Ctr for Environ Sci	21,377	24,038	26,816	31,605	0	3,873	27,732	0
13 University of Oklahoma	18,760	23,374	27,018	29,158	19,608	9,550	0	0
14 U of IL Urbana-Champaign	26,017	25,265	28,452	28,497	2,870	23,894	0	1,733
15 University of Miami	27,480	31,067	28,452	28,353	17,357	17	9,513	1,466
16 U CA Santa Barbara	14,157	16,853	24,007	28,009	0	8,691	16,080	3,238
17 U WI-Madison	25,176	24,864	25,695	28,001	15,181	5,191	3,107	4,522
18 U TX at Austin	26,568	19,477	20,980	24,134	0	19,612	4,522	0
19 Col of William & Mary	16,684	18,538	23,707	23,938	0	179	23,759	0
20 Georgia Institute of Tech	11,191	14,505	13,224	23,382	444	12,667	0	10,271
Total, 1st 20 institutions	702,577	781,815	812,844	877,616	150,670	201,593	415,178	110,175
21 U of Rhode Island	22,231 i	19,105	22,602	23,212	0	171	22,516	525
22 MA Institute of Tech	15,068	15,900	23,494	22,009	8,310	9,650	3,273	776
23 U of Alaska Fairbanks	31,441 i	33,814 i	18,756	21,644	0	0	18,040	3,604
24 Rutgers the State U NJ	14,486	14,668	17,959	20,936	72	1,050	8,956	10,858
25 Pennsylvania State U	25,010	23,552	26,740	20,396	4,958	9,936	227	5,275
26 Desert Research Institute	13,400	14,400	17,043	19,454	12,320	7,134	0	0
27 U of South Florida	12,919	14,243	17,526	19,197	0	1,191	17,996	10
28 SUNY at Stony Brook	19,394	16,566	19,413	17,379	1,729	5,094	10,556	0
29 VA Polytech Inst & St U	32,709	29,232	21,462	16,786	0	2,529	0	14,257
30 U of South Carolina	13,405	13,496	17,812	15,868	0	8,543	3,558	3,767
Total, 1st 30 institutions	902,640	976,791	1,015,651	1,074,497	178,059	246,891	500,300	149,247
31 NC State University	14,091	16,743	17,945	15,699	7,076	0	7,602	1,021
32 U of Maine	8,734	10,269	11,974	15,214	0	4,873	10,341	0
33 U CA Los Angeles	7,071	8,060	9,960	14,893	4,920	6,744	0	3,229
34 Colorado State University	12,366	14,656	14,773	14,402	12,981	1,421	0	0
35 U of Southern California	12,501	14,202	12,095	14,394	0	10,255	2,253	1,886
36 Florida State University	16,126	15,775	13,871	14,303	5,241	5,061	3,966	35
37 University of Georgia	10,107	11,229	12,694	13,994	0	5,988	8,006	0
38 Harvard University	9,871	13,271	14,089	13,868	0	86	0	13,782
39 California Inst of Tech	16,710	18,285	14,611	13,846	0	13,846	0	0
40 U CA Santa Cruz	11,361	11,390	12,880	13,839	0	4,116	8,396	1,327
Total, 1st 40 institutions	1,021,578	1,110,671	1,150,543	1,218,949	208,277	299,281	540,864	170,527
41 Princeton University	8,657	8,816	10,630	12,946	2,975	7,101	0	2,870
42 University of Minnesota	9,929	10,824	12,986	12,762	0	6,132	1,662	4,968
43 U of Nebraska at Lincoln	11,687	11,863 i	11,314	12,710	1,068	11,642	0	0
44 Arizona State University	4,900	5,154	16,451	11,532	0	11,532	0	0
45 U of NC Chapel Hill	9,884	10,127	11,271	11,382	0	6,838	4,252	292
46 U CA Riverside	2,630	9,394	8,968	11,115	0	3,148	0	7,967
47 University of Kansas	9,574	9,463	9,858	10,919	0	10,919	0	0
48 U of Nevada Las Vegas	5,150	6,331	7,862	10,579	0	1,375	0	9,204
49 University of Arizona	10,742	10,067	11,071	10,343	3,203	7,140	0	0
50 University of Delaware	9,930	8,180	9,288	9,960	0	746	9,214	0
Total, 1st 50 institutions	1,104,661	1,200,890	1,260,242	1,333,197	215,523	365,854	555,992	195,828

See explanatory information and SOURCE at end of table.

Table B-54. R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2000 R&D expenditures in the environmental sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Atmospheric	Earth sciences	Oceanography	Other
51 U CA Davis	6,910	6,547	6,981	9,958	0	1,597	5,210	3,151
52 San Jose State University	9,427i	9,427e	9,427e	9,427e	906e	380e	8,141e	0e
53 U of Tennessee System	12,989	11,609	10,882	9,330	0	1,793	0	7,537
54 Naval Postgrad School	7,792	8,218i	8,218i	9,038i	5,322i	0i	3,716i	0i
55 U MA Amherst	9,564	7,143	7,587	8,707	0	6,559	0	2,148
56 Utah State University	13,629	11,134	11,712	8,453	2,061	6,392	0	0
57 University of Connecticut	7,074	9,224	7,486	8,259	0	575	7,684	0
58 U of Central Florida	8,741	8,353	9,068	8,250	8,250	0	0	0
59 Texas Tech University	737	1,046	2,565	8,139	45	928	0	7,166
60 Stanford University	7,159	8,025	8,260	8,056	0	8,056	0	0
Total, 1st 60 institutions	1,188,683	1,281,616	1,342,428	1,420,814	232,107	392,134	580,743	215,830
61 University of Wyoming	11,650	10,387	6,542	7,968	3,962	3,997	0	9
62 University of Michigan	27,112	24,737	6,511	7,609	1,462	4,236	1,911	0
63 Duke University	6,485	7,554	7,629	7,556	0	1,700	2,046	3,810
64 Ohio State University	9,424	9,481	8,355	7,512	0	3,043	0	4,469
65 U MD Biotechnology Inst	6,929	7,917	7,747	7,442	0	0	7,442	0
66 U CA Berkeley	4,766	5,755	7,244	7,132	0	6,932	0	200
67 U of Nevada Reno	6,130	4,476	6,747	6,552	70	4,870	0	1,612
68 NM Inst Mining & Tech	4,818	4,868	6,741	6,535	0	5,193	0	1,342
69 U MD at College Park	10,195	8,331	6,828	6,402	5,196	1,203	0	3
70 SUNY at Albany	6,534	6,152	6,443	6,379	6,231	148	0	0
Total, 1st 70 institutions	1,282,726	1,371,274	1,413,215	1,491,901	249,028	423,456	592,142	227,275
71 Florida International U	437	450	4,072	6,372	0	6,372	0	0
72 U Southern Mississippi	1,619	2,535	6,876	6,238	0	182	5,996	60
73 Old Dominion University	5,604	5,380	6,199	5,788	0	1	4,304	1,483
74 University of Virginia	4,105	4,771	5,676	5,692	5,692	0	0	0
75 West Virginia University	7,452	2,348	3,335	5,671	0	1,161	0	4,510
76 University of Chicago	7,009	7,742	5,966	5,663	0	5,663	0	0
77 U MD Baltimore County	0	0	5,442	5,373	5,373	0	0	0
78 Brown University	5,275	5,372	5,535	5,370	0	5,088	0	282
79 U of Alabama Huntsville	6,218	5,177	5,287	5,241	5,241	0	0	0
80 U of NC Wilmington	6,548i	5,469	5,098	5,070	0	316	4,754	0
Total, 1st 80 institutions	1,326,993	1,410,518	1,466,701	1,548,379	265,334	442,239	607,196	233,610
81 George Mason University	206	59	52	5,059	0	5,059	0	0
82 University of Idaho	2,884i	5,112	3,932	4,656	0	3,031	0	1,625
83 U TX at El Paso	5,069	1,832	6,703	4,423	0	4,423	0	0
84 Washington University	3,295	3,420	4,385	4,374	0	4,374	0	0
85 Cornell University	3,670	4,101	4,170	4,221	0	2,546	0	1,675
86 Purdue University	3,609	3,614	4,272	4,096	1,419	699	0	1,978
87 Univ of Memphis, The	3,018	2,916	3,416	4,095	0	4,095	0	0
88 University of Utah	4,074	4,057	3,756	4,040	2,178	1,862	0	0
89 University of Florida	3,890	6,709	5,070	3,830	0	1,412	2,418	0
90 Iowa State University	1,700	1,737	3,343	3,803	0	3,803	0	0
Total, 1st 90 institutions	1,358,408	1,444,075	1,505,800	1,590,976	268,931	473,543	609,614	238,888

See explanatory information and SOURCE at end of table.

**Table B-54. R&D expenditures in the environmental sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the environmental sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 3 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Atmospheric	Earth sciences	Oceanography	Other
91 Tarleton State University	2,638	3,659	3,559	3,717	0	3,717	0	0
92 Hampton University	525	1,089	1,517	3,687	3,622	0	65	0
93 U WI-Milwaukee	3,246	3,325	3,638	3,675	0	262	3,257	156
94 U PR Mayaguez Campus	4,894	4,601	4,421	3,642	0	827	2,815	0
95 OR Grad Inst Sci & Tech	4,728	4,964e	3,759	3,582	613	0	0	2,969
96 Mississippi State U	2,887	4,060	3,199	3,540	0	226	0	3,314
97 U CA Irvine	2,300	2,249	3,023	3,373	0	3,373	0	0
98 Boston University	2,214	3,473	3,775	3,370	0	314	0	3,056
99 San Diego St University	2,233	2,270	2,861	3,166	0	2,288	878	0
100 Indiana University	2,296	1,762	6,428	3,070	0	3,070	0	0
Total, 1st 100 institutions	1,386,369	1,475,527	1,541,980	1,625,798	273,166	487,620	616,629	248,383
Total, all other sampled institutions	145,610	148,073	149,031	142,962	15,451	78,794	14,903	33,814

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-55. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the environmental sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Atmospheric	Earth sciences	Oceanography	Other
Total, all institutions	1,011,715	1,075,796	1,101,125	1,131,279	222,891	330,052	421,291	157,045
1 U CA San Diego	61,622	60,437	65,829	72,813	16,918	10,177	45,718	0
2 Texas A&M University	53,790	52,659	53,624	61,397	2,675	1,122	55,214	2,386
3 U of Washington	51,175	58,248	55,954	58,356	13,496	6,529	38,331	0
4 University of Colorado	38,706	62,358	61,055	56,172	26,308	29,086	725 <i>i</i>	53
5 Woods Hole Oceanogr Inst	53,997	55,669	50,237	54,235	3,688 <i>i</i>	18,996 <i>i</i>	13,776 <i>i</i>	17,775 <i>i</i>
6 Columbia U in City of NY	35,871	40,462	40,712	46,838	4,387	206	38,786	3,459
7 Johns Hopkins U	29,605	42,063	42,057	35,596	7,461 <i>i</i>	2,296 <i>i</i>	11,933 <i>i</i>	13,906 <i>i</i>
8 Univ of Hawaii at Manoa	27,482	33,624	32,859	30,503	1,130	8,394	14,447	6,532
9 Oregon State University	24,576	25,699	26,936	28,487	1,753	1,560	20,826	4,348
10 University of Miami	24,387	27,452	25,455	25,388	15,663	16	8,305	1,404
Total, 1st 10 institutions	401,211	458,671	454,718	469,785	93,479	78,382	248,061	49,863
11 U of New Hampshire	15,048	15,315	18,008	24,122	3,878	2,884	8,457	8,903
12 MA Institute of Tech	13,679	14,147	20,150	20,410	7,880	8,852	3,213	465
13 U of Rhode Island	21,188 <i>i</i>	18,314	20,105	20,311	0	157	20,154	0
14 U WI-Madison	17,798	17,243	16,406	17,784	12,397	2,072	601	2,714
15 U CA Santa Barbara	8,852	11,478	16,140	17,649	0	5,547	9,204	2,898
16 University of Oklahoma	8,745	11,419	13,541	14,805	11,410	3,395	0	0
17 VA Polytech Inst & St U	31,202	27,820	20,094	14,804	0	547	0	14,257
18 Desert Research Institute	8,400	9,300	11,720	14,685	8,273	6,412	0	0
19 Colorado State University	10,744	10,630	11,630	12,451	11,302	1,149	0	0
20 Harvard University	6,906	12,839	13,424	12,362	0	86	0	12,276
Total, 1st 20 institutions	543,773	607,176	615,936	639,168	148,619	109,483	289,690	91,376
21 U of South Florida	9,058	10,314	11,034	11,782	0	412	11,370	0
22 SUNY at Stony Brook	13,676	11,187	13,432	11,745	1,326	4,014	6,405	0
23 Pennsylvania State U	14,726	12,290	15,554	10,886	3,334	6,243	151	1,158
24 U of Alaska Fairbanks	15,862 <i>i</i>	17,767 <i>i</i>	8,091	10,884	0	0	10,776	108
25 U MD Ctr for Environ Sci	6,240	7,440	8,116	10,805	0	977	9,828	0
26 U of IL Urbana-Champaign	5,637	9,168	10,463	10,468	2,376	7,521	0	571
27 U TX at Austin	8,483	6,537	5,904	10,450	0	8,796	1,654	0
28 Florida State University	11,015	9,725	9,700	10,330	4,344	3,729	2,246	11
29 Arizona State University	4,311	4,721	15,030	10,167	0	10,167	0	0
30 Georgia Institute of Tech	5,244	6,359	5,660	9,687	184	5,248	0	4,255
Total, 1st 30 institutions	638,025	702,684	718,920	746,372	160,183	156,590	332,120	97,479
31 Louisiana State U System	6,947	5,886	6,223	9,649	0	1,576	7,081	992
32 U of Southern California	10,362	10,277	8,698	9,513	0	7,365	1,843	305
33 Rutgers the State U NJ	5,931	6,082	8,361	8,947	0	877	6,657	1,413
34 California Inst of Tech	15,512	16,912	14,141	8,910	0	8,910	0	0
35 Naval Postgrad School	7,621	8,029 <i>i</i>	8,029 <i>i</i>	8,792 <i>i</i>	5,248 <i>i</i>	0 <i>i</i>	3,544 <i>i</i>	0 <i>i</i>
36 U CA Los Angeles	5,503	5,663	6,611	8,514	4,039	2,311	0	2,164
37 U of Nevada Las Vegas	3,560	4,328	5,658	8,350	0	1,219	0	7,131
38 Princeton University	5,991	5,815	6,696	8,035	2,185	3,542	0	2,308
39 Col of William & Mary	6,339	6,828	7,769	7,847	0	89	7,758	0
40 U of Nebraska at Lincoln	8,690	8,821 <i>i</i>	6,857	7,264	0	7,264	0	0
Total, 1st 40 institutions	714,481	781,325	797,963	832,193	171,655	189,743	359,003	111,792
41 U of South Carolina	6,533	6,062	6,712	6,655	0	3,215	1,460	1,980
42 University of Delaware	6,633	5,596	6,173	6,630	0	469	6,161	0
43 U of Maine	3,718	5,085	6,205	6,399	0	2,103	4,296	0
44 University of Arizona	5,464	5,990	6,625	6,209	1,790	4,419	0	0
45 U of NC Chapel Hill	5,616	6,048	6,337	6,118	0	4,669	1,423	26
46 Stanford University	5,796	5,920	6,041	6,029	0	6,029	0	0
47 University of Minnesota	3,976	4,587	6,120	5,940	0	3,390	1,054	1,496
48 U CA Santa Cruz	5,568	5,519	5,945	5,864	0	2,254	3,464	146
49 U Southern Mississippi	1,541	2,358	6,489	5,860	0	182	5,618	60
50 University of Michigan	19,134	18,623	4,497	5,482	1,163	2,732	1,587	0
Total, 1st 50 institutions	778,460	847,113	859,107	893,379	174,608	219,205	384,066	115,500

See explanatory information and SOURCE at end of table.

Table B-55. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the environmental sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Atmospheric	Earth sciences	Oceanography	Other
51 U of Tennessee System	7,835	6,744	7,051	5,444	0	1,098	0	4,346
52 NC State University	5,294	6,654	5,727	5,291	4,020	0	1,271	0
53 University of Chicago	6,055	6,420	4,617	5,111	0	5,111	0	0
54 George Mason University	191	41	41	4,970	0	4,970	0	0
55 University of Georgia	3,231	3,683	5,026	4,845	0	1,033	3,812	0
56 University of Virginia	3,349	4,048	4,774	4,814	4,814	0	0	0
57 U MD Baltimore County	0	0	4,602	4,654	4,654	0	0	0
58 Duke University	3,012	3,235	3,921	4,638	0	1,395	1,518	1,725
59 U MD at College Park	6,246	6,704	5,381	4,604	3,863	741	0	0
60 University of Connecticut	2,703	3,689	4,107	4,573	0	331	4,242	0
Total, 1st 60 institutions	816,376	888,331	904,354	942,323	191,959	233,884	394,909	121,571
61 San Jose State University	4,363i	4,363e	4,363e	4,363e	714e	132e	3,517e	0e
62 U of Nevada Reno	3,978	2,650	4,787	4,307	51	4,252	0	4
63 U of Alabama Huntsville	5,137	4,165	4,198	4,261	4,261	0	0	0
64 Ohio State University	6,337	6,145	5,662	3,953	0	1,098	0	2,855
65 University of Wyoming	3,393	4,453	3,518	3,873	2,106	1,767	0	0
66 U of NC Wilmington	3,995i	3,321	3,191	3,839	0	141	3,698	0
67 U TX at El Paso	4,326	1,308	6,125	3,769	0	3,769	0	0
68 U CA Berkeley	2,354	2,525	4,051	3,734	0	3,728	0	6
69 Florida International U	218	225	3,001	3,732	0	3,732	0	0
70 Hampton University	525	1,089	1,517	3,637	3,622	0	15	0
Total, 1st 70 institutions	851,002	918,575	944,767	981,791	202,713	252,503	402,139	124,436
71 University of Utah	2,993	3,097	3,053	3,453	2,105	1,348	0	0
72 U MA Amherst	4,734	2,967	2,764	3,385	0	2,942	0	443
73 Brown University	3,637	3,718	3,748	3,377	0	3,339	0	38
74 Old Dominion University	2,448	2,333	3,665	3,283	0	0	3,097	186
75 SUNY at Albany	3,129	2,619	2,991	3,207	3,207	0	0	0
76 Texas Tech University	31	334	1,386	3,054	0	125	0	2,929
77 Utah State University	9,570	6,682	6,739	3,053	1,695	1,358	0	0
78 OR Grad Inst Sci & Tech	3,807	3,997e	3,034	2,949	495	0	0	2,454
79 Boston University	1,562	2,560	3,095	2,918	0	281	0	2,637
80 U MD Biotechnology Inst	4,104	4,995	5,894	2,773	0	0	2,773	0
Total, 1st 80 institutions	887,017	951,877	981,136	1,013,243	210,215	261,896	408,009	133,123
81 Washington University	2,537	2,594	2,779	2,757	0	2,757	0	0
82 University of Idaho	498i	2,451	2,046	2,685	0	1,467	0	1,218
83 Purdue University	2,386	2,411	2,731	2,683	906	446	0	1,331
84 University of Kansas	2,047	2,173	2,287	2,547	0	2,547	0	0
85 Mississippi State U	2,155	2,677	2,162	2,522	0	1	0	2,521
86 U CA Riverside	1,652	3,196	2,681	2,520	0	888	0	1,632
87 Yale University	1,770	1,840	1,780	2,317	857	1,413	47	0
88 U CA Davis	3,450	1,995	1,809	2,265	0	866	1,088	311
89 West Virginia University	5,098	1,021	1,439	2,180	0	419	0	1,761
90 New Mexico State Univ	4,210	4,151	2,672	2,145	1,137	21	0	987
Total, 1st 90 institutions	912,820	976,386	1,003,522	1,037,864	213,115	272,721	409,144	142,884

See explanatory information and SOURCE at end of table.

Table B-55. Federally financed R&D expenditures in the environmental sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the environmental sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Atmospheric	Earth sciences	Oceanography	Other
91 SD Sch of Mines & Tech	2,068	1,712	1,796	2,125	2,125	0	0	0
92 Southern Methodist U	842	1,726	2,609	2,117	0	2,117	0	0
93 Cornell University	2,118	2,170	2,565	2,098	0	1,591	0	507
94 Iowa State University	625	914	2,006	2,071	0	2,071	0	0
95 University of Oregon	1,924	2,307	2,021	1,992	0	921	455	616
96 U CA Irvine	1,719	1,590	2,263	1,982	0	1,982	0	0
97 University of Florida	1,475	2,073	2,527	1,924	0	423	1,501	0
98 U PR Mayaguez Campus	3,555	3,051	2,916	1,826	0	392	1,434	0
99 Jackson State University	0	757	0	1,743	53	1,573	117	0
100 University of New Mexico	1,442	1,443	1,636	1,735	414	1,299	22	0
Total, 1st 100 institutions	928,588	994,129	1,023,861	1,057,477	215,707	285,090	412,673	144,007
Total, all other sampled institutions	83,127	81,667	77,264	73,802	7,184	44,962	8,618	13,038

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-56. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the mathematical sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	289,342	310,199	313,111	340,683	202,009	214,081	209,158	228,694
1 Johns Hopkins U ¹	34,207	29,293	24,302	24,195	34,171	29,271	24,238	24,072
2 George Washington U	10,272	13,477	13,910	16,276	7,653	11,537	13,376	15,835
3 U TX at Austin	7,242	15,683	13,911	15,011	3,980	10,156	9,585	9,699
4 Boston College	6,776	7,951	9,562	12,077	5,667	6,331	6,780	7,295
5 NC State University	7,454	9,088	8,995	10,839	3,361	3,444	2,511	4,494
6 U of South Carolina	7,047	8,501	7,546	9,911	2,209	1,986	1,586	2,108
7 Rutgers the State U NJ	7,048	10,335	9,748	8,728	3,207	6,266	5,664	4,652
8 Brown University	6,703	7,499	7,308	7,439	4,391	4,675	5,035	4,760
9 Iowa State University	5,885	5,771	6,272	6,907	2,746	2,727	2,782	3,182
10 Georgia Institute of Tech	4,014	4,403	3,963	5,829	1,881	1,931	1,696	2,415
Total, 1st 10 institutions	96,648	112,001	105,517	117,212	69,266	78,324	73,253	78,512
11 U CA Berkeley	4,958	4,602	4,069	5,730	4,265	3,927	3,230	4,476
12 New York University	3,377	5,828	5,652	5,555	3,251	5,570	5,005	4,746
13 U TX MD Anderson Cncr Ctr ..	2,733	2,715	3,625	5,142	230	144	855	1,239
14 Stanford University	3,219	4,049	4,577	5,111	2,993	3,804	4,303	4,672
15 MA Institute of Tech	3,529	2,469	5,138	5,097	3,104	2,303	4,131	4,169
16 U CA Los Angeles	3,717	4,226	4,748	4,957	2,907	3,553	4,115	3,426
17 SUNY at Stony Brook	5,165	4,575	5,071	4,903	3,149	3,002	3,447	3,006
18 University of Georgia	4,464	4,362	4,778	4,732	748	578	634	598
19 University of Florida	3,703	4,676	4,687	4,705	2,401	2,739	2,564	2,600
20 U of Washington	2,639	3,247	3,724	4,366	2,501	3,000	3,259	3,849
Total, 1st 20 institutions	134,152	152,750	151,586	167,510	94,815	106,944	104,796	111,293
21 University of Minnesota	5,997	5,965	5,069	4,327	4,945	4,844	4,172	3,579
22 U WI-Madison	3,052	3,180	3,643	3,833	1,939	1,832	1,857	1,767
23 Carnegie Mellon U	2,868	3,671	3,845	3,757	2,396	3,015	3,164	3,322
24 Pennsylvania State U	3,092	2,986	3,358	3,750	1,974	1,832	2,140	2,318
25 Texas A&M University	1,846	2,600	2,764	3,684	1,377	1,674	1,791	2,715
26 Naval Postgrad School	2,891	3,048 <i>i</i>	3,048 <i>i</i>	3,344 <i>i</i>	2,867	3,021 <i>i</i>	3,021 <i>i</i>	3,308 <i>i</i>
27 U of IL Chicago	3,556	1,944	2,694	3,324	2,583	1,292	1,680	2,291
28 Purdue University	3,626	3,762	3,195	3,277	2,022	1,869	1,452	1,533
29 Princeton University	2,057	1,791	2,560	3,158	1,364	1,448	1,781	1,928
30 University of Michigan	3,050	3,127	3,170	3,115	2,393	2,230	2,573	2,448
Total, 1st 30 institutions	166,187	184,824	184,932	203,079	118,675	130,001	128,427	136,502
31 Western Michigan U	2,442	2,759	2,321	3,038	1,575	1,842	1,578	2,225
32 University of Arizona	2,850	3,121	2,409	2,999	2,060	2,270	1,753	2,124
33 San Diego St University	736	998	1,956	2,853	218	196	588	1,609
34 U CA Santa Barbara	1,868	2,157	2,403	2,842	1,272	1,655	1,656	1,604
35 Rice University	2,241	2,392	2,466	2,809	1,858	2,253	2,239	2,660
36 VA Polytech Inst & St U	2,788	2,973	2,395	2,666	1,831	1,958	1,370	1,503
37 U of IL Urbana-Champaign	1,598	2,011	2,259	2,597	851	1,102	1,235	1,316
38 Cornell University	3,000	2,448	2,634	2,487	2,445	1,547	1,889	1,729
39 U of Southern California	2,372	2,043	2,051	2,387	2,123	1,846	1,835	2,202
40 Clemson University	1,922	2,265	2,005	2,319	642	710	546	632
Total, 1st 40 institutions	188,004	207,991	207,831	230,076	133,550	145,380	143,116	154,106
41 U MA Amherst	1,527	1,788	1,567	2,298	1,146	1,167	1,190	1,653
42 Florida State University	982	1,772	4,346	2,275	812	995	1,499	1,343
43 University of Colorado	1,606	1,875	2,013	2,121	1,198	1,417	1,418	1,916
44 Indiana University	1,385	1,290	1,519	2,077	993	785	930	1,033
45 University of Chicago	1,576	1,519	1,514	2,038	1,430	1,444	1,511	1,980
46 U of Nebraska at Lincoln	533	540 <i>i</i>	1,891	2,016	398	403 <i>i</i>	389	396
47 Harvard University	1,275	1,462	1,674	1,887	1,070	1,379	1,647	1,853
48 Washington University	918	1,208	1,194	1,814	844	1,127	981	1,628
49 Ithaca College	0 <i>i</i>	845	1,379	1,767	0 <i>i</i>	777	1,307	1,767
50 Ohio State University	1,731	1,370	1,500	1,751	1,234	997	1,202	1,364
Total, 1st 50 institutions	199,537	221,660	226,428	250,120	142,675	155,871	155,190	169,039

See explanatory information and SOURCE at end of table.

Table B-56. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the mathematical sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 Arizona State University	1,239	1,245	1,132	1,677	788	582	735	960
52 Duke University	1,007	904	1,277	1,666	843	844	1,143	1,545
53 Yale University	1,503	2,439	2,357	1,570	1,342	2,305	2,173	1,253
54 Colorado State University	1,764	1,503	1,599	1,418	548	433	557	684
55 University of Delaware	1,591	1,527	1,288	1,386	1,201	1,184	940	984
56 Boston University	2,347	3,042	2,545	1,384	2,265	2,857	2,402	1,274
57 University of Utah	1,143	1,290	1,512	1,356	1,093	1,112	1,249	1,130
58 Louisiana State U System	1,926	1,550	1,247	1,346	433	307	227	318
59 U of Missouri Columbia	1,113	1,348	1,447	1,335	484	608	541	581
60 University of Louisville	364	132	1,483	1,329	285	84	163	51
Total, 1st 60 institutions	213,534	236,640	242,315	264,587	151,957	166,187	165,320	177,819
61 Drexel University	462	403	812	1,307	116	319	676	943
62 Portland State University	163	320	272	1,270	20	202	209	935
63 SUNY at Buffalo	629	1,431	1,284	1,265	304	297	191	217
64 Northwestern University	998	1,198	963	1,229	724	924	699	920
65 U of Alabama Huntsville	966	2,085	1,381	1,188	557	1,453	1,061	942
66 U CA Davis	778	1,100	913	1,156	619	692	652	707
67 Columbia U in City of NY	761	953	926	1,096	701	852	893	1,031
68 Rockefeller U, The	240	307	727	1,086	135	125	173	578
69 U of Pennsylvania	1,120	747	949e	1,084	1,117	731	949	1,035
70 U CA San Diego	1,056	1,477	1,115	1,078	842	1,226	938	894
Total, 1st 70 institutions	220,707	246,661	251,657	276,346	157,092	173,008	171,761	186,021
71 Texas Tech University	672	1,024	763	1,042	356	656	483	628
72 U CA Irvine	538	471	1,178	1,038	486	336	789	770
73 U MD at College Park	1,671	773	745	1,015	902	773	745	865
74 Oklahoma State University	370	400	783	1,002	342	353	297	353
75 Le Moyne-Owen Coll	--	12	1,000	1,000	--	0	1,000	1,000
76 U of LA Lafayette	623	652	709	943	17	3	21	58
77 Northeastern University	591	677	829	927	471	567	634	726
78 Western Illinois U	750	903	757	924	540	650	602	635
79 University of Pittsburgh	488	319	904	919	358	293	838	802
80 Rensselaer Polytech Inst	1,440i	1,170	903	908	870i	1,057	836	812
Total, 1st 80 institutions	227,850	253,062	260,228	286,064	161,434	177,696	178,006	192,670
81 U of Iowa	458	497	750	889	291	334	551	666
82 Morgan State University	237i	52	0	878	236i	52	0	878
83 Michigan State University	1,185	712	694	876	931	481	542	599
84 U MA Dartmouth	817	1,266	1,043	857	807	1,208	964	727
85 U of the Virgin Islands	1,477e	1,477e	819e	819e	0e	0e	0	0e
86 Mississippi State U	46	412	525	815	43	46	51	74
87 Utah State University	768	654	376	800	388	289	210	603
88 University of Vermont	331	485	477	799	199	292	317	499
89 NJ Inst of Technology	795	665	665	797	473	455	455	452
90 U of NC Chapel Hill	1,166	840	675	797	966	751	616	719
Total, 1st 90 institutions	235,130	260,122	266,252	294,391	165,768	181,604	181,712	197,887

See explanatory information and SOURCE at end of table.

Table B-56. Total and federally financed R&D expenditures in the mathematical sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the mathematical sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 Tufts University	974	783	909	787	737	630	629	574
92 University of Houston	1,307	673	836	787	910	457	545	552
93 Polytechnic University	119	94 <i>i</i>	100	769	95	77 <i>i</i>	48	548
94 Elizabeth City State U	19	309	361	753	19	309	361	753
95 Univ of Memphis, The	363	831	354	738	204	201	298	620
96 Tulane University	695	498	467	730	503	429	395	564
97 Worcester Polytech Inst	343	555	547	726	229	321	319	311
98 Illinois State University	963	982e	690	707 <i>i</i>	932	950e	550	563 <i>i</i>
99 California Inst of Tech	310	357	1,147	701	270	237	866	681
100 University of Kentucky	325	421	693	692	323	247	465	506
Total, 1st 100 institutions	240,548	265,625	272,356	301,781	169,990	185,462	186,188	203,559
Total, all other sampled institutions	48,794	44,574	40,755	38,902	32,019	28,619	22,970	25,135

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-57. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the computer sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	709,238	746,138	860,705	878,416	506,213	513,129	582,284	581,549
1 Johns Hopkins U ¹	79,097	72,991	71,050	70,525	78,103	72,340	70,459	69,244
2 U of IL Urbana-Champaign	9,130	56,715	65,803	61,032	6,692	34,823	41,976	41,162
3 Carnegie Mellon U	61,763	58,795	58,744	54,838	46,705	45,249	38,709	36,882
4 U of Southern California	42,063	49,893	56,745	50,745	39,458	40,661	46,741	46,312
5 U CA San Diego	3,561	18,913	36,657	50,199	0	11,057	28,339	38,444
6 MA Institute of Tech	16,979	14,590	34,061	34,384	12,446	11,366	26,622	23,290
7 Georgia Institute of Tech	27,597	29,329	31,259	34,339	12,928	12,858	13,379	14,227
8 U TX at Austin	10,084	6,919	18,109	24,350	7,417	5,261	14,811	18,970
9 Ohio State University	14,779	13,761	17,249	21,050	3,332	2,522	2,356	1,576
10 U MD at College Park	18,478	19,868	23,521	19,617	8,498	12,005	14,176	12,029
Total, 1st 10 institutions	283,531	341,774	413,198	421,079	215,579	248,142	297,568	302,136
11 Cornell University	28,976	19,309	17,683	16,474	23,034	14,195	11,714	9,941
12 Stanford University	18,160	18,390	17,449	13,637	15,873	16,270	15,767	11,573
13 University of Utah	9,159	11,181	11,441	13,614	8,815	10,057	11,017	10,684
14 U of Alaska Fairbanks	0 i	0 i	11,178	12,899	0 i	0 i	138	186
15 Syracuse University	9,909 i	10,823	11,495	11,445	4,383 i	6,376	8,714	9,210
16 U MA Amherst	9,852	9,314	10,481	11,046	5,262	6,120	7,265	7,181
17 Rice University	10,053	10,275	10,839	10,590	9,803	9,819	10,595	10,251
18 University of Michigan	5,008	5,295	9,545	9,110	2,010	1,452	2,560	3,386
19 U of Pennsylvania	7,947	8,207	8,829 e	9,034	5,789	5,905	7,037	7,664
20 U of NC Chapel Hill	7,859	8,339	9,531	8,632	4,176	5,358	6,401	5,552
Total, 1st 20 institutions	390,454	442,907	531,669	537,560	294,724	323,694	378,776	377,764
21 U WI-Madison	8,153	7,481	7,360	8,441	6,597	5,837	5,291	6,079
22 OR Grad Inst Sci & Tech	8,641	9,073 e	9,519	8,194	6,473	6,797 e	7,522	6,380
23 U of Tennessee System	8,151	7,016	7,494	7,981	5,258	3,622	2,600	2,787
24 University of Minnesota	6,428	6,285	7,225	7,763	4,242	3,900	4,216	5,585
25 U CA Los Angeles	7,108	6,763	8,007	7,681	5,695	5,139	5,519	5,190
26 SUNY at Buffalo	5,539	5,656	7,270	7,413	1,593	1,977	2,576	2,015
27 U of Alabama Huntsville	3,217	4,923	5,971	7,374	1,950	3,178	3,963	4,950
28 Washington University	7,510	8,019	8,205	7,263	5,863	5,304	5,666	5,189
29 Purdue University	4,836	4,925	5,583	7,220	2,751	2,345	2,778	2,995
30 Rutgers the State U NJ	9,138	6,617	6,152	6,432	5,505	2,383	2,488	2,259
Total, 1st 30 institutions	459,175	509,665	604,455	613,322	340,651	364,176	421,395	421,193
31 University of Colorado	7,159	6,718	6,990	6,027	5,342	4,851	5,671	5,185
32 New York University	7,935	6,306	5,959	5,920	5,428	3,892	3,620	3,720
33 Pennsylvania State U	4,819	1,020	1,145	5,878	3,426	448	488	4,346
34 Columbia U in City of NY	4,927	4,074	4,966	5,867	4,569	3,830	4,738	5,547
35 Princeton University	4,032	4,493	4,565	5,657	2,307	2,216	2,012	2,600
36 NC State University	2,786	2,876	3,007	5,175	1,281	1,713	1,393	2,733
37 U CA Irvine	4,152	4,259	4,854	5,040	2,160	2,296	2,933	3,241
38 U of Washington	5,537	5,676	4,956	4,872	4,965	4,818	4,254	4,050
39 University of Arizona	6,751	6,293	4,836	4,686	5,116	4,421	3,524	3,488
40 Brown University	4,915	5,149	4,729	4,646	3,245	3,462	3,036	2,898
Total, 1st 40 institutions	512,188	556,529	650,462	667,090	378,490	396,123	453,064	459,001
41 New Mexico State Univ	3,009	4,338	5,129	4,486	2,505	3,504	4,091	3,452
42 U of West Florida	1,145 i	2,247	3,022	4,429	945 i	1,468	2,332	3,773
43 University of Virginia	4,115	5,680	5,566	4,394	3,431	4,982	4,717	3,265
44 Naval Postgrad School	3,731	3,930 i	3,930 i	4,307 i	3,718	3,916 i	3,916 i	4,289 i
45 Cal Poly St U	306 i	16	4,647	4,274	171 i	14	4,646	4,225
46 Wright State University	267	265	1,429	4,076	195	125	185	1,073
47 California Inst of Tech	11,060	11,000	10,113	3,972	10,061	10,996	10,041	459
48 Indiana University	3,215	2,827	2,492	3,839	2,595	1,505	1,112	1,529
49 Northwestern University	2,818	3,011	3,173	3,700	1,798	1,769	1,815	1,893
50 University of Kansas	101	768	3,223	3,619	27	246	958	576
Total, 1st 50 institutions	541,955	590,611	693,186	708,186	403,936	424,648	486,877	483,535

See explanatory information and SOURCE at end of table.

Table B-57. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the computer sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 Michigan State University	2,070	2,848	2,990	3,317	1,280	1,440	1,635	1,791
52 Texas A&M University	5,384	4,476	3,237	3,309	1,848	1,259	1,575	1,903
53 U of LA Lafayette	3,312	2,526	3,714	3,308	846	965	1,829	1,245
54 University of Houston	2,406	2,561	2,780	3,267	1,643	1,780	1,798	2,043
55 Arizona State University	2,091	2,851	2,540	3,224	1,028	1,141	1,073	1,351
56 U of Nebraska at Lincoln	702	711i	2,392	3,203	508	515i	740	814
57 Florida State University	2,635	2,053	2,674	3,140	1,912	1,518	2,055	1,860
58 University of Oregon	2,673	2,707	3,252	3,075	2,312	2,404	2,921	2,683
59 Iowa State University	4,913	5,129	3,003	3,060	324	483	860	280
60 SUNY at Stony Brook	3,251	3,341	3,496	2,956	1,938	2,206	1,806	1,744
Total, 1st 60 institutions	571,392	619,814	723,264	740,045	417,575	438,359	503,169	499,249
61 University of Georgia	2,992	2,529	2,706	2,883	40	88	398	761
62 University of Alabama, The	2,397	2,980	4,667	2,813	343	311	412	425
63 University of Oklahoma	1,842	2,322	2,709	2,713	384	128	74	81
64 U CA Davis	1,942	2,458	2,522	2,563	1,720	1,961	1,896	1,628
65 Jackson State University	884	959	3,203	2,526	775	824	2,880	2,199
66 U CA Santa Barbara	5,611	7,039	2,162	2,525	4,157	5,046	1,252	2,069
67 Duke University	1,484	1,758	1,595	2,421	787	1,076	1,082	1,799
68 Yale University	2,181	1,998	2,408	2,411	1,797	1,682	1,898	1,316
69 University of Florida	3,021	3,578	3,955	2,404	1,645	2,371	2,679	1,956
70 Howard University	3,284	1,536	1,171	2,325	3,081	1,416	1,075	1,933
Total, 1st 70 institutions	597,030	646,971	750,362	765,629	432,304	453,262	516,815	513,416
71 University of New Mexico	2,823	2,601	2,797	2,323	2,595	1,926	2,246	2,038
72 University of Rochester	3,212	2,652	3,103	2,307	3,093	2,549	2,986	2,226
73 Florida International U	880	906	2,003	2,303	179	184	1,319	1,349
74 University of Pittsburgh	1,789	2,690	2,935	2,273	1,268	2,353	2,656	1,873
75 VA Polytech Inst & St U	2,275	2,315	2,168	2,208	1,755	1,617	1,526	1,030
76 Mississippi State U	1,004	1,125	1,960	2,199	926	709	1,367	781
77 Bowie State University	1,991	2,026	2,109	2,109e	1,991	2,026	1,913	1,913e
78 U of IL Chicago	0	791	994	2,082	0	461	581	1,634
79 U CA Berkeley	945	1,182	2,060	2,078	5	1	741	1,065
80 Louisiana State U System	832	1,377	2,104	2,076	148	80	315	291
Total, 1st 80 institutions	612,781	664,636	772,595	787,587	444,264	465,168	532,465	527,616
81 U CA Santa Cruz	912	1,520	1,605	2,028	668	1,165	1,329	1,612
82 Harvard University	1,042	1,277	1,386	2,017	685	1,229	1,308	1,602
83 Oregon State University	1,061	1,888	1,887	1,983	900	1,515	1,505	1,600
84 Dartmouth College	442	899	2,010	1,976	237	526	1,469	1,648
85 Rockefeller U, The	2,179	1,927	1,498	1,907	645	442	93	167
86 West Virginia University	1,073	823	346	1,814	864	554	184	341
87 Florida A&M University	847	794	1,902	1,781	847	369	1,902	1,177
88 U of NC Charlotte	745i	773	1,058	1,736	367i	657	787	1,595
89 University of Delaware	3,830	3,947	2,015	1,727	2,157	2,431	1,092	829
90 Univ of Montana, The	362	283	333	1,605	224	200	228	753
Total, 1st 90 institutions	625,274	678,767	786,635	806,161	451,858	474,256	542,362	538,940

See explanatory information and SOURCE at end of table.

Table B-57. Total and federally financed R&D expenditures in the computer sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the computer sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 CUNY Brooklyn College	534	563e	1,583	1,507	394	416e	893	1,013
92 Clemson University	1,139	1,807	1,294	1,497	381	565	352	407
93 University of Connecticut	1,926	1,173	919	1,436	206	198	194	512
94 University of Kentucky	496	827	1,084	1,368	496	729	748	1,038
95 U of Missouri Kansas City	606	938	1,177	1,288	199	734	1,027	767
96 Old Dominion University	1,402	1,542	1,321	1,258	1,024	1,153	973	632
97 U TX at El Paso	274	968	763	1,247	269	932	729	1,241
98 Brandeis University	970	853	1,012	1,242	858	805	888	1,185
99 Drexel University	1,109	1,273	1,172	1,212	29	132	170	255
100 University of Chicago	570	658	973	1,204	544	349	715	1,125
Total, 1st 100 institutions	634,300	689,369	797,933	819,420	456,258	480,269	549,051	547,115
Total, all other sampled institutions	74,938	56,769	62,772	58,996	49,955	32,860	33,233	34,434

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-58. R&D expenditures in the life sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the life sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agricul-tural sciences	Bio-logical sciences	Medical sciences	Other
Total, all institutions	13,587,569	14,592,547	15,631,696	17,479,853	2,178,645	5,609,198	9,002,562	689,448
1 U CA San Francisco	343,384	379,970	417,095	429,541	0	59,650	369,884	7
2 Johns Hopkins U	318,588	332,458	356,575	385,907	0	98,701	258,324	28,882
3 U of Washington	274,310	288,925	327,975	372,339	17,003	111,425	239,350	4,561
4 U CA Los Angeles	278,650	313,422	327,302	368,030	0	51,743	312,078	4,209
5 U of Pennsylvania	226,426	266,318	302,186	343,388	519	133,269	199,489	10,111
6 U WI-Madison	246,501	265,262	311,730	341,779	38,597	119,722	179,773	3,687
7 Baylor Col of Medicine	192,744	216,528	272,198	334,175	0	161,269	172,906	0
8 Washington University	231,303	234,810	277,281	324,032	0	152,562	164,561	6,909
9 University of Michigan	241,824	270,466	270,898	306,199	4,409	83,497	183,043	35,250
10 Duke University	203,326	228,396	290,206	298,144	0	66,887	230,670	587
Total, 1st 10 institutions	2,557,056	2,796,555	3,153,446	3,503,534	60,528	1,038,725	2,310,078	94,203
11 University of Minnesota	263,510	261,207	269,055	297,925	60,482	54,228	173,794	9,421
12 U CA Davis	221,022	232,976	248,859	292,503	128,145	84,997	79,361	0
13 Yale University	210,570	225,403	236,121	257,472	1,278	86,408	169,786	0
14 Stanford University	177,006	195,377	216,764	256,252	0	15,260	240,992	0
15 U CA San Diego	191,799	199,279	215,713	255,497	0	40,608	213,430	1,459
16 University of Pittsburgh	170,225	182,827	213,648	253,612	0	9,543	237,966	6,103
17 Harvard University	183,081	195,472	221,419	251,246	0	90,740	153,796	6,710
18 Cornell University	200,441	215,404	222,855	243,158	52,517	52,559	138,082	0
19 U of MD Baltimore	134,808	143,321	140,903	224,346	0	33,652	179,477	11,217
20 University of Florida	191,088	177,226	208,356	220,588	87,305	34,476	95,009	3,798
Total, 1st 20 institutions	4,500,606	4,825,047	5,347,139	6,056,133	390,255	1,541,196	3,991,771	132,911
21 U CA Berkeley	151,055	174,394	173,208	219,128	27,948	105,170	86,010	0
22 U of Alabama Birmingham	187,877	211,039	214,654	216,304	0	66,291	149,166	847
23 Columbia U in City of NY	157,028	170,957	184,913	212,281	0	78,329	132,827	1,125
24 U of NC Chapel Hill	162,616	176,442	189,813	204,646	0	87,196	99,553	17,897
25 Ohio State University	145,702	163,913	169,780	194,937	44,558	52,365	80,300	17,714
26 Emory University	150,242	163,709	179,929	192,492	0	44,884	115,760	31,848
27 U TX SW Med Ctr at Dallas	140,589	153,711	165,520	189,216	0	87,243	101,518	455
28 U of Iowa	135,873	148,007	157,236	183,099	0	44,149	135,912	3,038
29 University of Arizona	144,319	153,625	158,804	180,467	46,745	57,167	74,590	1,965
30 University of Georgia	157,095	148,995	160,990	180,275	87,415	68,244	24,527	89
Total, 1st 30 institutions	6,033,002	6,489,839	7,101,986	8,028,978	596,921	2,232,234	4,991,934	207,889
31 U TX MD Anderson Cnrc Ctr	124,450	135,100	147,823	173,347	0	76,021	97,326	0
32 University of Colorado	130,305	142,135	149,880	163,132	39	48,199	111,438	3,456
33 U of Southern California	137,378	141,502	145,206	162,756	0	5,824	148,314	8,618
34 Case Western Reserve U	121,432	133,979	143,074	153,776	0	50,163	103,269	344
35 Northwestern University	113,615	133,916	146,887	153,243	0	57,705	87,605	7,933
36 Mt Sinai Sch Med	94,776	109,448	127,765	149,846	0	58,576	91,270	0
37 New York University	123,371	124,351	136,329	147,489	0	44,200	64,090	39,199
38 Pennsylvania State U	93,820	99,746	101,867	147,340	63,436	56,446	23,825	3,633
39 Louisiana State U System	121,908	124,209	130,209	147,295	54,345	56,366	35,966	618
40 Texas A&M University	144,744	159,093	164,646	146,600	66,793	33,216	46,591	0
Total, 1st 40 institutions	7,238,801	7,793,318	8,495,672	9,573,802	781,534	2,718,950	5,801,628	271,690
41 University of Kentucky	90,936	117,731	126,650	145,901	56,606	3,184	82,698	3,413
42 Michigan State University	117,219	120,904	130,392	143,190	62,234	61,741	17,248	1,967
43 U of IL Chicago	103,074	110,518	127,786	142,203	0	39,590	94,381	8,232
44 U Med & Dent of NJ	110,383	114,491	126,277	140,951	0	55,491	85,460	0
45 Yeshiva University	96,819	99,000	111,771	139,618	0	33,843	76,148	29,627
46 Vanderbilt University	98,318	109,534	117,715	137,734	0	69,404	59,285	9,045
47 NC State University	110,190	121,736	134,338	136,438	70,131	63,084	0	3,223
48 University of Cincinnati	115,869	129,578	115,975	135,543	0	45,463	84,952	5,128
49 Indiana University	99,219	110,220	119,441	131,540	95	40,531	87,059	3,855
50 Oregon Health Sciences U	93,635 <i>i</i>	105,735 <i>i</i>	116,422 <i>i</i>	126,445	0	51,801	65,485	9,159
Total, 1st 50 institutions	8,274,463	8,932,765	9,722,439	10,953,365	970,600	3,183,082	6,454,344	345,339

See explanatory information and SOURCE at end of table.

**Table B-58. R&D expenditures in the life sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the life sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agricul-tural sciences	Bio-logical sciences	Medical sciences	Other
51 University of Rochester	94,688	111,899	110,841	124,571	0	37,694	81,799	5,078
52 University of Utah	89,029	94,383	98,011	124,257	0	34,153	52,488	37,616
53 SUNY at Buffalo	90,923	93,114	105,524	124,168	0	52,362	63,675	8,131
54 University of Chicago	104,122	103,348	108,200	121,687	0	38,325	82,954	408
55 Wayne State University	93,689	104,460	114,217	120,701	0	2,925	116,063	1,713
56 Georgetown University	110,351	106,347	98,480e	119,611	0	10,910	107,609	1,092
57 UT Houston Hlth Sci Ctr	95,638	101,993	105,307	119,587	0	33,997	68,805	16,785
58 University of Virginia	69,703	88,752	102,816	117,971	0	41,997	71,776	4,198
59 Rockefeller U, The	101,395	109,008	115,715	117,079	0	112,967	4,112	0
60 U of Missouri Columbia	91,673	98,662	105,545	112,396	48,455	30,760	31,259	1,922
Total, 1st 60 institutions	9,215,674	9,944,731	10,787,095	12,155,393	1,019,055	3,579,172	7,134,884	422,282
61 U CA Irvine	75,840	86,093	94,991	107,771	0	57,143	49,477	1,151
62 Purdue University	93,060	96,025	101,479	106,891	42,348	46,279	13,821	4,443
63 U TX Hlth Sci Ctr San Ant	86,019	82,357	87,804	103,824	0	34,974	68,850	0
64 Boston University	79,997	83,544	94,478	103,731	0	6,944	95,805	982
65 University of Miami	94,398	92,385	97,838	103,472	0	20,681	82,709	82
66 Rutgers the State U NJ	85,290	91,706	97,017	99,301	34,199	42,223	17,518	5,361
67 University of Connecticut	75,564	79,719	81,970	97,825	9,953	35,293	50,379	2,200
68 U of IL Urbana-Champaign	71,006	81,436	87,213	97,752	48,239	41,353	5,560	2,600
69 U MA Worcester	71,346	82,950	83,040	97,587	0	32,296	40,328	24,963
70 U TX Med Br at Galveston	76,484	85,219	92,274	96,406	0	41,471	54,655	280
Total, 1st 70 institutions	10,024,678	10,806,165	11,705,199	13,169,953	1,153,794	3,937,829	7,613,986	464,344
71 Colorado State University	68,218	77,765	96,230	96,098	57,129	31,277	7,692	0
72 U of South Florida	58,771	63,616	82,586	95,756	0	3,107	91,892	757
73 University of Kansas	61,927	66,492	82,370	95,317	60	47,159	26,894	21,204
74 U of Tennessee System	83,464	85,380	92,957	95,074	28,762	27,690	37,253	1,369
75 Thomas Jefferson U	69,228	69,460	78,410	89,626	0	42,590	45,792	1,244
76 SUNY at Stony Brook	72,394	77,768	79,447	89,558	0	49,072	39,652	834
77 Wake Forest University	74,089	75,987	81,220	85,675	0	592	85,083	0
78 VA Polytech Inst & St U	65,396	66,495	73,781	84,265	63,870	11,741	4,810	3,844
79 Tufts University	67,094	73,437	80,592	83,227	0	73,036	8,858	1,333
80 Oregon State University	80,008	83,238	83,992	82,485	52,052	26,003	2,956	1,474
Total, 1st 80 institutions	10,725,267	11,545,803	12,536,784	14,067,034	1,355,667	4,250,096	7,964,868	496,403
81 Iowa State University	74,475	75,816	78,037	79,334	42,644	32,227	3,594	869
82 Virginia Commonwealth U	70,273	70,968	69,763	75,323	0	26,825	46,724	1,774
83 Mississippi State U	53,238	62,253	65,748	75,070	68,358	1,440	5,126	146
84 MA Institute of Tech	42,738	42,744	66,924	73,228	254	57,181	14,553	1,240
85 Washington State U	59,631	64,805	65,632	70,714	25,070	38,726	3,866	3,052
86 Medical Col of Wisconsin	51,629	56,021	61,446	70,581	0	28,980	41,601	0
87 Tulane University	70,668	72,246	72,140	70,301	0	10,196	27,513	32,592
88 Rush University	47,357	52,378	58,166	67,122	0	13,095	52,830	1,197
89 Med U of South Carolina	57,111	57,940	55,819e	65,243	0	19,688	31,648	13,907
90 U of Nebraska at Lincoln	72,914	74,011i	62,623	64,285	40,692	21,964	0	1,629
Total, 1st 90 institutions	11,325,301	12,174,985	13,193,082	14,778,235	1,532,685	4,500,418	8,192,323	552,809
91 University of Oklahoma	50,649	56,247	62,471	63,984	0	26,916	35,404	1,664
92 Univ of Hawaii at Manoa	49,719	57,016	62,503	63,662	18,585	11,520	20,433	13,124
93 Clemson University	40,781	47,941	54,023	62,486	27,124	30,958	887	3,517
94 Dartmouth College	41,417	49,978	53,543	59,803	0	3,269	56,534	0
95 Kansas State University	50,095	54,268	56,739	59,728	43,595	15,881	252	0
96 Auburn University	47,797	48,586	51,324	56,273	40,941	9,588	4,178	1,566
97 University of Vermont	52,487	51,015	56,013	56,067	5,203	21,253	25,677	3,934
98 SUNY at Albany	37,106	28,221	38,486	55,159	0	55,159	0	0
99 U of Nebraska Med Ctr	45,365	50,453	54,205	51,547	0	31,245	20,212	90
100 University of Louisville	26,998	31,008	42,131	49,922	0	16,841	28,675	4,406
Total, 1st 100 institutions	11,767,715	12,649,718	13,724,520	15,356,866	1,668,133	4,723,048	8,384,575	581,110

See explanatory information and SOURCE at end of table.

**Table B-58. R&D expenditures in the life sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the life sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 3 of 4

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agricul-tural sciences	Bio-logical sciences	Medical sciences	Other
101 Oklahoma State University	35,653	38,293	45,141	49,269	26,625	17,554	4,888	202
102 U of Arkansas Medical Sci	37,336	39,487	44,066	49,074	0	11,461	37,613	0
103 U CA Riverside	56,461	49,242	45,241	47,470	24,419	20,527	2,524	0
104 U of Arkansas Main	42,188	46,523	43,733	47,239	45,525	1,714	0	0
105 University of New Mexico	34,492	40,612	36,824	46,280	0	25,465	14,349	6,466
106 Medical Col of Georgia	38,725	39,806	41,103	45,596	0	27,765	17,754	77
107 MCP Hahnemann University ..	85,748	95,984	27,254	41,267	0	16,333	20,573	4,361
108 University of Idaho	42,226 ⁱ	41,187	40,633	39,812	31,765	7,022	1,024	1
109 Montana St U Bozeman	31,996	32,362	33,283	39,492	29,341	9,711	119	321
110 U TX at Austin	26,363	25,821	30,561	39,125	113	26,891	11,592	529
Total, 1st 110 institutions	12,198,903	13,099,035	14,112,359	15,801,490	1,825,921	4,887,491	8,495,011	593,067
111 Brown University	28,892	30,976	34,242	38,501	0	6,102	28,495	3,904
112 U MD at College Park	31,579	33,772	35,966	37,526	18,670	15,296	0	3,560
113 North Dakota State U	25,193	32,362	33,813	37,124	33,003	1,985	2,136	0
114 Utah State University	32,815	32,316	33,636	35,626	22,774	6,518	6,334	0
115 West Virginia University	28,469	34,199	33,247	32,628	7,566	6,535	18,527	0
116 California Inst of Tech	31,240	32,425	26,791	31,932	0	31,932	0	0
117 SUNY Hlth Sci Ctr Brklyn	29,727	27,517	28,840	31,626	0	18,509	13,041	76
118 C R Drew U of Med & Sci	17,205 ^e	17,205 ^e	24,484	31,045	0	0	31,045	0
119 Temple University	39,912	46,219	39,957	30,675	4	15,256	14,383	1,032
120 Saint Louis University	25,356	26,000	27,118	29,888	0	11,981	13,557	4,350
Total, 1st 120 institutions	12,489,291	13,412,026	14,430,453	16,138,061	1,907,938	5,001,605	8,622,529	605,989
121 U MA Amherst	23,134	26,555	26,596	28,833	17,314	9,043	0	2,476
122 Texas Tech University	21,078	22,446	24,337	28,017	11,165	10,805	5,555	492
123 U of Nevada Reno	21,862	21,761	18,855	26,014	10,296	11,815	3,616	287
124 U Mississippi, All Camp	18,286	20,175	7,783	25,918	0	6,797	18,542	579
125 TX A&M U Sys Hlth Sci Ctr	--	--	--	25,719	0	1,540	24,048	131
126 Loyola U of Chicago	25,888	28,980	25,799	25,087	0	11,203	13,090	794
127 U of South Carolina	17,431	18,180	23,387	24,371	0	6,349	18,022	0
128 Unif Svcs U of Hlth Sci	18,812	20,309	22,898	23,987	0	8,331	15,656	0
129 S Illinois U Carbondale	16,445	16,616	18,967	23,401	9,120	6,213	7,443	625
130 New York Medical College	16,890	19,159	20,436	23,348	0	11,800	11,548	0
Total, 1st 130 institutions	12,669,117	13,606,207	14,619,511	16,392,756	1,955,833	5,085,501	8,740,049	611,373
131 George Washington U	21,627	26,872	23,269	23,310	0	479	22,814	17
132 Eastern VA Med School	19,109	21,672	24,096	23,299	0	9,369	13,820	110
133 Princeton University	17,693	17,843	19,429	23,185	0	23,185	0	0
134 U MD Biotechnology Inst	22,188	23,944	23,425	22,504	5,379	16,940	0	185
135 Loma Linda University	12,397	12,788	18,818	21,488	0	5,456	16,032	0
136 U PR Med Sci Campus	15,575	19,830	17,114	21,373	0	0	21,373	0
137 San Diego St University	20,185	19,023	19,928	20,629	264	10,407	8,552	1,406
138 Univ of Montana, The	14,736	13,896	16,707	20,509	8,012	9,634	1,682	1,181
139 University of Delaware	13,272	17,180	17,348	20,227	16,566	3,256	0	405
140 Brandeis University	19,992	20,304	20,127	20,159	0	20,159	0	0
Total, 1st 140 institutions	12,845,891	13,799,559	14,819,772	16,609,439	1,986,054	5,184,386	8,824,322	614,677

See explanatory information and SOURCE at end of table.

**Table B-58. R&D expenditures in the life sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the life sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
141 U of Alaska Fairbanks	18,612 <i>i</i>	19,562 <i>i</i>	17,234	19,887	8,509	11,378	0	0
142 U PR Mayaguez Campus	35,732	37,691	41,981	19,339	18,493	846	0	0
143 New Mexico State Univ	19,466	16,330	17,582	19,165	17,331	1,768	20	46
144 U of Maine	16,547	14,276	16,742	18,431	7,297	8,987	0	2,147
145 U of LA Lafayette	12,156	12,461	14,834	18,167	251	4,086	13,327	503
146 University of Wyoming	17,640	19,657	21,491	17,512	13,590	3,768	154	0
147 Wright State University	10,031	11,943	14,093	17,350	0	2,604	14,599	147
148 SUNY Upstate Med U	14,914	14,089	15,099	17,095	0	9,332	7,763	0
149 University of Oregon	14,652	14,451	13,986	16,949	0	8,261	8,688	0
150 Morehouse School of Med	12,828	13,213	13,622	16,889	0	6,899	9,990	0
Total, 1st 150 institutions	13,018,469	13,973,232	15,006,436	16,790,223	2,051,525	5,242,315	8,878,863	617,520
Total, all other sampled institutions	569,100	619,315	625,260	689,630	127,120	366,883	123,699	71,928

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the life sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

Page 1 of 4

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
Total, all institutions	7,761,199	8,330,474	8,942,577	10,059,880	578,511	3,646,207	5,443,674	391,488
1 Johns Hopkins U ¹	244,682	259,454	281,249	305,404	0	78,137	202,668	24,599
2 U of Washington	214,307	222,448	246,803	268,355	10,619	77,047	177,807	2,882
3 U of Pennsylvania	170,897	198,815	227,734	259,136	295	102,380	148,823	7,638
4 U CA San Francisco	206,749	219,630	233,181	239,282	0	45,399	193,883	0
5 Washington University	163,180	161,884	191,983	228,233	0	117,727	106,261	4,245
6 Harvard University	138,054	163,991	183,218	213,775	0	77,164	129,901	6,710
7 Yale University	161,454	174,414	183,022	202,801	402	72,024	130,375	0
8 University of Michigan	154,678	171,935	182,255	200,273	1,832	60,459	112,859	25,123
9 Stanford University	140,805	155,050	174,195	199,299	0	12,316	186,983	0
10 University of Pittsburgh	136,957	145,487	167,748	198,076	0	7,107	186,326	4,643
Total, 1st 10 institutions	1,731,763	1,873,108	2,071,388	2,314,634	13,148	649,760	1,575,886	75,840
11 Baylor Col of Medicine	97,829	110,610	141,111	193,249	0	115,970	77,279	0
12 U CA Los Angeles	148,140	159,433	169,502	188,919	0	33,860	152,515	2,544
13 Columbia U in City of NY	135,093	144,577	153,549	185,106	0	71,417	113,332	357
14 University of Minnesota	139,674	144,826	147,646	163,831	13,217	33,317	111,373	5,924
15 U of Alabama Birmingham	138,895	154,908	153,179	162,927	0	51,231	111,146	550
16 Duke University	122,374	133,454	143,274	159,656	0	54,605	104,471	580
17 U CA San Diego	122,177	126,944	135,740	155,250	0	30,260	124,941	49
18 U of NC Chapel Hill	114,807	131,183	138,631	150,606	0	66,577	76,970	7,059
19 U WI-Madison	122,349	126,814	133,809	148,172	10,572	61,131	74,842	1,627
20 Emory University	99,422	111,682	126,500	137,489	0	37,809	74,023	25,657
Total, 1st 20 institutions	2,972,523	3,217,539	3,514,329	3,959,839	36,937	1,205,937	2,596,778	120,187
21 University of Colorado	98,022	104,521	116,014	136,720	0	41,457	93,510	1,753
22 Case Western Reserve U	94,708	106,938	114,553	125,924	0	39,255	86,372	297
23 Cornell University	103,585	110,388	115,982	125,344	13,758	29,243	82,343	0
24 U of Iowa	83,511	89,203	96,891	112,862	0	27,879	84,526	457
25 U CA Davis	81,350	88,045	98,784	109,978	34,870	35,990	39,118	0
26 U TX SW Med Ctr at Dallas	89,357	97,200	101,996	109,165	0	54,978	53,847	340
27 Oregon Health Sciences U	64,472 ⁱ	78,866 ⁱ	91,835 ⁱ	104,185	0	45,755	50,027	8,403
28 Vanderbilt University	79,651	86,936	91,369	103,565	0	56,644	39,046	7,875
29 U of Southern California	92,577	91,664	94,480	103,260	0	4,301	91,893	7,066
30 Yeshiva University	77,936	80,000	89,680	101,631	0	24,635	55,430	21,566
Total, 1st 30 institutions	3,837,692	4,151,300	4,525,913	5,092,473	85,565	1,566,074	3,272,890	167,944
31 Mt Sinai Sch Med	60,914	69,995	84,624	98,188	0	43,900	54,288	0
32 University of Chicago	84,766	87,762	91,591	97,251	0	30,813	66,148	290
33 Northwestern University	67,983	78,649	82,942	96,823	0	41,056	50,440	5,327
34 University of Cincinnati	63,654	74,095	83,303	94,624	0	34,337	60,122	165
35 New York University	75,150	81,747	89,173	93,890	0	34,497	34,990	24,403
36 Georgetown University	78,981	79,223	76,707	92,084	0	8,711	82,703	670
37 U of MD Baltimore	72,100	78,037	84,516	91,212	0	13,682	72,969	4,561
38 University of Arizona	71,555	75,275	80,174	89,978	13,887	32,101	42,825	1,165
39 Boston University	64,981	67,475	80,675	88,405	0	6,259	81,463	683
40 University of Rochester	67,532	76,928	75,975	88,295	0	31,985	53,561	2,749
Total, 1st 40 institutions	4,545,308	4,920,486	5,355,593	6,023,223	99,452	1,843,415	3,872,399	207,957
41 University of Utah	62,182	63,895	68,423	81,091	0	27,856	41,447	11,788
42 UT Houston Hlth Sci Ctr	67,205	70,446	71,288	79,665	0	25,855	44,657	9,153
43 Ohio State University	66,322	72,194	77,926	79,507	6,821	28,026	37,533	7,127
44 University of Virginia	49,517	61,600	67,772	78,287	0	31,196	45,388	1,703
45 U TX MD Anderson Cnrc Ctr	47,524	60,347	66,016	77,963	0	37,732	40,231	0
46 U CA Berkeley	62,703	65,728	64,757	76,937	2,957	59,746	14,234	0
47 U of IL Chicago	52,832	56,850	67,001	76,932	0	23,236	48,167	5,529
48 U Med & Dent of NJ	57,471	59,828	61,730	75,318	0	37,135	38,183	0
49 Indiana University	60,771	64,970	70,151	74,949	76	25,511	46,910	2,452
50 University of Florida	57,850	63,549	75,556	72,971	12,857	18,674	38,784	2,656
Total, 1st 50 institutions	5,129,685	5,559,893	6,046,213	6,796,843	122,163	2,158,382	4,267,933	248,365

See explanatory information and SOURCE at end of table.

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the life sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
51 Pennsylvania State U	50,925	52,397	56,182	68,343	14,236	35,919	16,194	1,994
52 University of Miami	65,103	62,022	63,869	68,262	0	16,444	51,783	35
53 SUNY at Buffalo	52,694	48,799	57,307	67,966	0	33,921	28,453	5,592
54 Thomas Jefferson U	49,091	51,728	56,369	67,448	0	34,650	31,671	1,127
55 U TX Hlth Sci Ctr San Ant	53,478	51,954	56,904	65,251	0	25,949	39,302	0
56 Wake Forest University	53,480	56,023	59,351	65,094	0	431	64,663	0
57 U MA Worcester	43,350	53,766	55,516	64,212	0	28,016	31,972	4,224
58 Colorado State University	42,396	42,266	56,063	62,328	38,093	18,694	5,541	0
59 U CA Irvine	38,718	41,652	48,827	61,177	0	39,950	20,830	397
60 U TX Med Br at Galveston	41,831	48,310	54,759	60,749	0	27,499	33,022	228
Total, 1st 60 institutions	5,620,751	6,068,810	6,611,360	7,447,673	174,492	2,419,855	4,591,364	261,962
61 MA Institute of Tech	32,907	33,826	49,466	55,109	188	44,122	9,592	1,207
62 Medical Col of Wisconsin	39,364	43,831	47,087	55,034	0	22,597	32,437	0
63 Tufts University	46,538	51,225	53,302	54,306	0	49,247	4,236	823
64 Wayne State University	43,004	46,472	47,371	52,637	0	1,940	50,451	246
65 SUNY at Stony Brook	43,766	48,990	48,971	51,701	0	30,859	20,445	397
66 Michigan State University	46,774	45,496	49,996	51,477	12,575	28,080	9,782	1,040
67 SUNY at Albany	30,678	23,274	34,434	50,670	0	50,670	0	0
68 University of Kentucky	43,247	41,679	46,622	50,133	8,506	1,319	40,070	238
69 Louisiana State U System	35,538	37,833	42,673	47,916	4,268	32,581	10,672	395
70 University of Georgia	43,187	42,412	42,100	47,290	14,600	29,784	2,906	0
Total, 1st 70 institutions	6,025,754	6,483,848	7,073,382	7,963,946	214,629	2,711,054	4,771,955	266,308
71 University of Kansas	28,565	28,377	38,866	46,879	24	22,870	14,025	9,960
72 University of Connecticut	34,607	37,120	38,767	46,875	1,723	19,300	24,380	1,472
73 U of Missouri Columbia	30,421	31,875	37,318	45,496	17,318	13,250	13,997	931
74 Virginia Commonwealth U	41,288	43,479	42,593	45,047	0	18,574	25,707	766
75 U of Tennessee System	38,469	37,064	38,605	43,256	5,684	19,293	17,236	1,043
76 Rockefeller U, The	39,910	40,347	42,689	42,109	0	37,997	4,112	0
77 Dartmouth College	33,103	34,859	35,707	41,537	0	2,426	39,111	0
78 Med U of South Carolina	37,790	36,473	30,997	41,432	0	13,017	19,236	9,179
79 Tulane University	40,477	44,002	41,482	40,122	0	7,370	10,352	22,400
80 University of New Mexico	23,287	26,611	29,014	38,214	0	21,075	11,906	5,233
Total, 1st 80 institutions	6,373,671	6,844,055	7,449,420	8,394,913	239,378	2,886,226	4,952,017	317,292
81 Univ of Hawaii at Manoa	28,715	31,608	36,536	38,123	8,284	6,681	15,094	8,064
82 Texas A&M University	37,707	43,610	43,653	37,616	14,226	10,146	13,244	0
83 U of IL Urbana-Champaign	30,867	31,887	33,684	37,004	11,049	24,162	1,186	607
84 Purdue University	33,033	32,707	34,525	35,919	9,863	18,839	5,174	2,043
85 Oregon State University	39,935	40,011	38,305	35,793	21,950	11,155	1,372	1,316
86 University of Vermont	30,379	27,751	31,432	35,632	2,230	16,863	14,701	1,838
87 Rush University	23,717	27,465	30,034	32,178	0	6,398	25,223	557
88 U of Arkansas Medical Sci	19,249	21,857	26,392	29,962	0	9,959	20,003	0
89 U of South Florida	12,169	14,694	21,731	29,878	0	947	28,399	532
90 Washington State U	24,049	28,160	27,895	29,653	7,785	19,328	749	1,791
Total, 1st 90 institutions	6,653,491	7,143,805	7,773,607	8,736,671	314,765	3,010,704	5,077,162	334,040
91 Rutgers the State U NJ	23,854	24,892	26,225	28,157	6,934	13,960	7,128	135
92 California Inst of Tech	27,510	31,416	26,077	27,468	0	27,468	0	0
93 NC State University	23,550	23,450	21,277	27,299	10,169	16,409	0	721
94 MCP Hahnemann University ..	48,062	61,102	17,039	27,127	0	14,331	9,688	3,108
95 Brown University	19,015	19,938	21,568	26,011	0	4,020	19,609	2,382
96 Saint Louis University	22,087	22,595	23,239	25,809	0	10,261	11,296	4,252
97 University of Oklahoma	24,753	26,845	28,928	25,532	0	13,005	11,774	753
98 U TX at Austin	15,235	18,220	20,222	24,953	0	18,409	6,091	453
99 Temple University	18,876	21,568	21,570	23,947	0	12,044	11,040	863
100 SUNY Hlth Sci Ctr Brklyn	18,996	18,318	21,053	22,860	0	15,089	7,771	0
Total, 1st 100 institutions	6,895,429	7,412,149	8,000,805	8,995,834	331,868	3,155,700	5,161,559	346,707

See explanatory information and SOURCE at end of table.

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the life sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
101 Iowa State University	19,014	20,402	21,345	22,669	10,250	10,819	1,150	450
102 C R Drew U of Med & Sci	16,052e	16,052	22,212	21,969	0	0	21,969	0
103 Mississippi State U	13,117	17,370	17,460	21,170	20,283	197	690	0
104 VA Polytech Inst & St U	17,317	18,391	18,472	20,481	14,440	3,847	1,315	879
105 U of Nebraska Med Ctr	13,990	15,663	17,167	19,878	0	14,558	5,320	0
106 New York Medical College	11,866	13,639	14,029	17,975	0	9,505	8,470	0
107 Clemson University	13,633	14,996	14,718	17,023	7,389	8,434	242	958
108 Loyola U of Chicago	13,032	15,676	15,904	16,720	0	7,944	8,605	171
109 U PR Med Sci Campus	12,978	11,843	13,971	16,657	0	0	16,657	0
110 Utah State University	14,353	13,189	14,747	16,066	10,641	2,042	3,383	0
Total, 1st 110 institutions	7,040,781	7,569,370	8,170,830	9,186,442	394,871	3,213,046	5,229,360	349,165
111 Kansas State University	13,409	13,771	14,633	15,941	8,558	7,346	37	0
112 Loma Linda University	7,062	7,834	12,217	15,930	0	4,276	11,654	0
113 Princeton University	11,512	11,424	13,148	15,571	0	15,571	0	0
114 Morehouse School of Med	11,709	12,060	12,948	15,419	0	6,678	8,741	0
115 Howard University	10,708	12,066	12,248	15,284	0	7,662	7,582	40
116 Medical Col of Georgia	11,904	13,127	13,991	15,210	0	10,294	4,916	0
117 University of Oregon	12,566	11,903	12,169	15,174	0	7,030	8,144	0
118 Montana St U Bozeman	9,775	12,094	12,751	14,484	8,375	5,913	0	196
119 TX A&M U Sys Hlth Sci Ctr	--	--	--	14,314	0	895	13,411	8
120 U of Nebraska at Lincoln	21,948	22,279i	14,120	14,269	8,368	5,649	0	252
Total, 1st 120 institutions	7,151,374	7,685,928	8,289,055	9,338,038	420,172	3,284,360	5,283,845	349,661
121 Brandeis University	14,375	14,762	14,534	14,241	0	14,241	0	0
122 U of South Carolina	9,060	8,925	12,433	14,074	0	3,490	10,584	0
123 George Washington U	11,838	13,989	15,349	14,073	0	449	13,607	17
124 Univ of Montana, The	8,551	9,047	11,368	13,772	4,898	6,574	1,335	965
125 University of Louisville	10,444	11,308	11,227	13,668	0	5,624	7,396	648
126 U of Nevada Reno	11,352	12,327	12,467	13,435	1,352	9,016	2,928	139
127 West Virginia University	8,243	10,774	10,603	13,420	2,113	3,606	7,701	0
128 U Mississippi, All Camp	10,172	10,825	2,926	13,333	0	4,420	8,396	517
129 University of Idaho	14,002i	13,446	16,173	12,180	9,111	2,832	236	1
130 Eastern VA Med School	10,618	9,449	11,354	12,114	0	3,718	8,396	0
Total, 1st 130 institutions	7,260,029	7,800,780	8,407,489	9,472,348	437,646	3,338,330	5,344,424	351,948
131 Auburn University	10,418	11,062	9,971	12,106	7,952	2,007	1,235	912
132 U MA Amherst	7,926	10,256	10,892	11,795	5,375	5,447	0	973
133 Oklahoma State University	9,132	9,232	9,637	11,709	4,509	6,459	721	20
134 U MD at College Park	10,872	11,181	12,280	11,573	2,766	6,921	0	1,886
135 Unif Svcs U of Hlth Sci	9,218	7,547	9,696	11,023	0	3,829	7,194	0
136 San Diego St University	11,101	11,024	10,643	10,332	264	5,654	3,915	499
137 U of Arkansas Main	8,463	8,196	8,939	10,059	8,968	1,091	0	0
138 Med Col of Ohio	9,766	8,107	9,219	9,944	0	8,364	1,155	425
139 Florida A&M University	11,006	8,888	11,778	9,364	4,335	4,710	205	114
140 Meharry Medical College	10,331e	10,331e	8,865	8,865e	0e	4,593e	3,991e	281
Total, 1st 140 institutions	7,358,262	7,896,604	8,509,409	9,579,118	471,815	3,387,405	5,362,840	357,058

See explanatory information and SOURCE at end of table.

Table B-59. Federally financed R&D expenditures in the life sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the life sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Agri-cultural sciences	Bio-logical sciences	Medical sciences	Other
141 U of Rhode Island	3,815 <i>i</i>	6,783	7,132	8,541	6,176	806	857	702
142 SUNY Upstate Med U	7,188	6,487	7,889	8,461	0	6,250	2,211	0
143 U of Alaska Fairbanks	4,321 <i>i</i>	4,841 <i>i</i>	6,254	8,412	3,315	5,097	0	0
144 U MD Biotechnology Inst	4,615	6,794	8,017	8,384	2,004	6,311	0	69
145 U of LA Lafayette	2,753	2,571	2,840	8,190	28	2,868	5,294	0
146 Wright State University	6,271	7,081	8,241	8,064	0	1,082	6,982	0
147 Alcorn State University	4,071 <i>i</i>	5,119	5,223	8,034	5,903	1,098	399	634
148 University of Wyoming	6,803	8,552	10,042	7,787	4,903	2,884	0	0
149 Carnegie Mellon U	7,385	6,926	6,249	7,760	0	3,461	0	4,299
150 Arizona State University	6,111	6,371	7,285	7,705	700	5,398	0	1,607
Total, 1st 150 institutions	7,411,595	7,958,129	8,578,581	9,660,456	494,844	3,422,660	5,378,583	364,369
Total, all other sampled institutions	349,604	372,345	363,996	399,424	83,667	223,547	65,091	27,119

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-60. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the agricultural sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	1,966,003	1,995,484	2,036,295	2,178,645	548,291	533,362	545,681	578,511
1 U CA Davis	140,881	106,546	104,295	128,145	40,536	28,416	28,573	34,870
2 University of Georgia	73,530	73,069	75,994	87,415	13,045	12,355	12,238	14,600
3 University of Florida	81,807	72,476	87,218	87,305	10,185	11,111	12,776	12,857
4 NC State University	61,817	60,168	72,724	70,131	9,163	8,259	8,152	10,169
5 Mississippi State U	44,736	55,294	57,964	68,358	11,670	16,127	16,490	20,283
6 Texas A&M University	56,394	59,860	57,792	66,793	14,771	15,812	14,068	14,226
7 VA Polytech Inst & St U	53,623	54,399	59,805	63,870	13,831	14,582	14,411	14,440
8 Pennsylvania State U	21,869	23,151	23,190	63,436	5,761	5,494	6,099	14,236
9 Michigan State University	54,085	54,954	58,591	62,234	13,247	11,320	12,697	12,575
10 University of Minnesota	52,624	55,693	58,619	60,482	10,076	10,424	10,790	13,217
Total, 1st 10 institutions	641,366	615,610	656,192	758,169	142,285	133,900	136,294	161,473
11 Colorado State University	39,154	42,874	56,396	57,129	24,760	23,151	32,246	38,093
12 University of Kentucky	36,894	50,143	52,996	56,606	8,023	4,472	8,197	8,506
13 Louisiana State U System	51,680	52,166	52,601	54,345	2,219	1,954	4,476	4,268
14 Cornell University	44,405	45,628	48,153	52,517	12,983	12,154	12,719	13,758
15 Oregon State University	56,740	57,866	55,105	52,052	27,871	27,826	25,608	21,950
16 U of Missouri Columbia	42,330	43,951	48,200	48,455	11,842	11,304	13,752	17,318
17 U of IL Urbana-Champaign	39,608	40,450	45,334	48,239	10,166	8,790	9,814	11,049
18 University of Arizona	42,715	46,049	45,495	46,745	13,318	13,850	14,366	13,887
19 U of Arkansas Main	40,784	45,060	42,254	45,525	8,132	7,862	8,347	8,968
20 Ohio State University	47,492	51,776	45,548	44,558	9,218	10,281	13,773	6,821
Total, 1st 20 institutions	1,083,168	1,091,573	1,148,274	1,264,340	270,817	255,544	279,592	306,091
21 Kansas State University	34,494	38,347	41,091	43,595	6,034	6,562	7,505	8,558
22 Iowa State University	37,570	38,808	40,154	42,644	9,556	9,615	9,416	10,250
23 Purdue University	35,018	35,625	38,538	42,348	8,176	7,821	9,052	9,863
24 Auburn University	34,609	36,228	37,693	40,941	6,549	7,367	6,111	7,952
25 U of Nebraska at Lincoln	53,424	54,227i	40,257	40,692	16,722	16,974i	8,323	8,368
26 U WI-Madison	26,333	28,767	33,223	38,597	8,023	8,301	8,305	10,572
27 Rutgers the State U NJ	28,036	30,425	32,266	34,199	5,908	5,300	6,243	6,934
28 North Dakota State U	21,990	30,113	31,589	33,003	2,541	4,062	3,592	4,556
29 University of Idaho	34,208i	33,782	33,437	31,765	10,446i	9,843	12,234	9,111
30 Montana St U Bozeman	24,063	23,132	24,454	29,341	4,956	5,855	6,994	8,375
Total, 1st 30 institutions	1,412,913	1,441,027	1,500,976	1,641,465	349,728	337,244	357,367	390,630
31 U of Tennessee System	28,540	28,216	30,481	28,762	5,115	4,786	5,443	5,684
32 U CA Berkeley	51,107	53,831	26,553	27,948	13,501	13,167	2,822	2,957
33 Clemson University	24,942	25,778	23,451	27,124	8,338	8,063	6,389	7,389
34 Oklahoma State University	24,958	26,528	26,327	26,625	4,556	4,567	4,316	4,509
35 Washington State U	22,722	24,214	22,959	25,070	7,235	7,925	7,292	7,785
36 U CA Riverside	50,698	23,552	21,974	24,419	11,067	2,241	2,209	2,334
37 Utah State University	20,574	21,294	22,692	22,774	8,234	8,531	9,487	10,641
38 U MD at College Park	23,152	27,036	25,565	18,670	6,259	6,068	5,088	2,766
39 Univ of Hawaii at Manoa	15,466	18,099	19,409	18,585	6,258	6,737	8,322	8,284
40 U PR Mayaguez Campus	34,974	36,801	40,971	18,493	12,229	13,280	16,282	4,691
Total, 1st 40 institutions	1,710,046	1,726,376	1,761,358	1,879,935	432,520	412,609	425,017	447,670
41 New Mexico State Univ	17,464	13,880	15,672	17,331	4,874	5,071	5,456	6,167
42 U MA Amherst	12,689	16,364	16,051	17,314	2,493	4,859	5,184	5,375
43 U of Washington	16,793	16,167	16,516	17,003	11,360	11,160	10,939	10,619
44 University of Delaware	12,308	14,927	14,657	16,566	1,875	2,367	2,335	3,125
45 University of Wyoming	9,851	11,805	11,822	13,590	4,210	5,427	6,570	4,903
46 Texas Tech University	8,472	9,030	10,365	11,165	1,588	1,472	1,392	1,400
47 South Dakota State U	10,504	10,361	10,436	10,857	3,154	3,621	3,419	3,948
48 U of Nevada Reno	10,334	6,788	5,149	10,296	2,122	2,036	2,077	1,352
49 University of Connecticut	6,334	7,331	7,933	9,953	1,131	1,171	1,384	1,723
50 S Illinois U Carbondale	5,117	5,817	6,116	9,120	1,485	981	974	1,827
Total, 1st 50 institutions	1,819,912	1,838,846	1,876,075	2,013,130	466,812	450,774	464,747	488,109

See explanatory information and SOURCE at end of table.

Table B-60. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the agricultural sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 U of Alaska Fairbanks	8,738i	9,136i	7,374	8,509	1,488i	1,668i	2,465	3,315
52 Univ of Montana, The	5,587	5,623	6,135	8,012	2,902	3,118	3,470	4,898
53 U of Rhode Island	2,007i	4,781	5,648	7,592	403i	4,219	4,854	6,176
54 West Virginia University	6,366	6,222	7,195	7,566	1,278	1,382	1,510	2,113
55 U of Maine	7,086	5,556	6,550	7,297	3,407	1,823	2,262	2,896
56 Alcorn State University	3,148i	3,913	3,863	5,903	3,148i	3,913	3,863	5,903
57 U MD Biotechnology Inst	5,145	5,723	5,599	5,379	1,510	1,997	2,356	2,004
58 University of Vermont	5,816	5,681	5,436	5,203	2,247	2,400	2,500	2,230
59 Florida A&M University	5,309	4,737	5,094	4,887	4,417	3,506	4,647	4,335
60 U of New Hampshire	4,535	4,918	4,845	4,818	1,261	1,089	1,224	1,186
Total, 1st 60 institutions	1,873,649	1,895,136	1,933,814	2,078,296	488,873	475,889	493,898	523,165
61 University of Michigan	0	2,592	3,313	4,409	0	1,533	1,579	1,832
62 Prairie View A&M U	3,490	3,357	4,209	4,339	3,263	3,230	3,058	2,938
63 CA St U Fresno	4,935i	5,810i	6,524i	4,314	228i	257i	287i	451
64 Texas A&M Univ Kingsville ...	4,636i	4,002	3,651	4,252	417i	495	395	440
65 SUNY Col Env Sci Frstry	3,066i	3,293i	3,887	4,086e	356i	359i	516	577e
66 Stephen F Austin St U	3,423	2,420	3,477	3,927	1,504	408	434	458
67 Tennessee State U	3,619	3,462	3,821	3,817	2,597	2,314	2,548	2,469
68 NC A&T State University	3,265	2,879	3,314	3,362	2,589	2,396	2,503	2,574
69 Alabama A&M University	4,209e	4,734	4,476	3,179	3,369e	3,421	3,505	2,676
70 Virginia State University	2,140	1,597	2,297	3,125	1,605	1,051	1,747	2,305
Total, 1st 70 institutions	1,906,432	1,929,282	1,972,783	2,117,106	504,801	491,353	510,470	539,885
71 U Arkansas Pine Bluff	3,022	3,077	3,077e	3,077i	2,287	2,225	2,225e	2,225i
72 Michigan Tech University	2,901	3,146	3,479	3,076	2,007	2,309	2,683	2,454
73 Cal Poly St U	954i	855	2,197	2,921	583i	39	963	1,082
74 Georgia Institute of Tech	2,440	2,258	2,483	2,831	1,143	990	1,063	1,173
75 Northern Arizona U	2,532i	2,059	1,987	2,609	1,640i	710	695	988
76 Langston University	1,828	2,031	2,340	2,553	1,828	2,031	2,340	2,553
77 Southern U A&M All Camp ...	2,861	2,639	2,627	2,552	2,026	1,946	1,821	2,044
78 Fort Valley State U	1,975	2,696	2,674	2,520	1,975	2,281	2,268	2,373
79 Humboldt State University	0i	2,249	2,448	2,448e	0i	1,455	1,580	1,580e
80 Lincoln University	2,623	3,031i	2,405	2,207	2,321	2,381i	2,405	2,207
Total, 1st 80 institutions	1,927,568	1,953,323	1,998,500	2,143,900	520,611	507,720	528,513	558,564
81 Delaware State University	1,420	1,964	1,509	2,075	1,311	1,839	1,143	1,954
82 Tuskegee University	13,540	15,305	2,121	2,044	12,137	10,906	1,975	1,905
83 University of Guam	1,434i	1,223	1,212	1,957	1,434i	1,206	1,201e	1,957
84 U CA Santa Cruz	1,503	1,276	1,488	1,911	12	28	30	152
85 U of the Virgin Islands	1,821e	1,821e	1,466e	1,466e	1,818e	1,818e	1,466e	1,466e
86 Harvey Mudd College	0i	0i	1,452i	1,452i	0i	0i	277i	277i
87 West Texas A&M U	308i	2,130	1,946	1,393	90i	4	6	25
88 Brigham Young University	37e	38	656	1,366	37i	8	200	570
89 U MD Eastern Shore	1,129	1,200	1,683	1,319	1,129	1,200	1,683	1,319
90 Yale University	1,557	1,529	1,548	1,278	678	776	752	402
Total, 1st 90 institutions	1,950,317	1,979,809	2,013,581	2,160,161	539,257	525,505	537,246	568,591

See explanatory information and SOURCE at end of table.

Table B-60. Total and federally financed R&D expenditures in the agricultural sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the agricultural sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 3 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 CA St U Los Angeles	0i	0i	73i	1,221i	0i	0i	61i	1,100i
92 Arizona State University	567	706	693	1,183	256	304	320	700
93 Western Illinois U	1,519	1,613	1,093	1,138	1,010	1,122	420	982
94 U of Northern Iowa	169	146	706	939	98	64	228	335
95 U MA Dartmouth	824	688	865	835	758	688	799	582
96 University of DC	892e	727	847	803	362e	362	426	407
97 Illinois State University	458	468e	762	781i	144	147e	0	0i
98 San Francisco State U	0i	0i	717i	724i	0i	0i	486i	611i
99 U WI-Stevens Point	1,222	888	1,048	718	397	251	185	115
100 CA St U Bakersfield	51i	39i	32i	638i	27i	21i	13i	66i
Total, 1st 100 institutions	1,956,019	1,985,084	2,020,417	2,169,141	542,309	528,464	540,184	573,489
Total, all other sampled institutions	9,984	10,400	15,878	9,504	5,982	4,898	5,497	5,022

KEY: e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-61. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the biological sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	4,180,017	4,580,587	5,033,339	5,609,198	2,682,421	2,935,471	3,214,457	3,646,207
1 Baylor Col of Medicine	90,293	102,767	134,205	161,269	57,942	66,773	85,138	115,970
2 Washington University	100,405	95,844	121,658	152,562	74,634	72,471	93,845	117,727
3 U of Pennsylvania	81,693	98,883	116,607	133,269	63,478	74,506	89,125	102,380
4 U WI-Madison	82,079	86,299	109,170	119,722	44,225	45,740	54,115	61,131
5 Rockefeller U, The	97,090e	105,085	110,870	112,967	35,705e	36,524	37,924	37,997
6 U of Washington	79,935	83,666	98,301	111,425	68,837	69,824	75,050	77,047
7 U CA Berkeley	49,104	57,018	84,488	105,170	35,686	38,030	48,568	59,746
8 Johns Hopkins U	74,819	79,603i	89,017	98,701	59,159	61,961i	69,030	78,137
9 Harvard University	90,128	98,793	108,751	90,740	75,938	87,418	95,605	77,164
10 U TX SW Med Ctr at Dallas	65,159	70,310	73,654	87,243	44,924	48,414	48,467	54,978
Total, 1st 10 institutions	810,705	878,268	1,046,721	1,173,068	560,528	601,661	696,867	782,277
11 U of NC Chapel Hill	73,124	77,094	80,602	87,196	52,158	59,372	60,698	66,577
12 Yale University	72,801	73,251	78,469	86,408	59,995	61,187	65,121	72,024
13 U CA Davis	9,202	45,546	62,830	84,997	2,945	16,220	25,046	35,990
14 University of Michigan	67,366	81,606	77,403	83,497	46,141	55,139	57,611	60,459
15 Columbia U in City of NY	62,300	67,051	75,186	78,329	54,053	59,234	64,933	71,417
16 U TX MD Anderson Cnrc Ctr ..	54,206	61,342	67,760	76,021	23,572	27,871	32,330	37,732
17 Tufts University	58,311	65,091	71,567	73,036	41,922	46,613	48,542	49,247
18 Vanderbilt University	50,932	55,890	57,323	69,404	43,197	48,206	47,819	56,644
19 University of Georgia	66,483	57,443	64,073	68,244	27,786	27,760	27,675	29,784
20 Duke University	38,865	52,402	62,002	66,887	31,929	44,178	51,986	54,605
Total, 1st 20 institutions	1,364,295	1,514,984	1,743,936	1,947,087	944,226	1,047,441	1,178,628	1,316,756
21 U of Alabama Birmingham	57,694	59,679	62,859	66,291	44,772	45,928	49,015	51,231
22 NC State University	48,201	59,658	58,039	63,084	14,387	14,900	12,774	16,409
23 Michigan State University	49,779	51,575	55,665	61,741	26,286	26,600	28,137	28,080
24 U CA San Francisco	0	0	0	59,650	0	0	0	45,399
25 Mt Sinai Sch Med	27,337	39,868	49,611	58,576	20,184	30,207	38,074	43,900
26 Northwestern University	42,983	53,124	51,343	57,705	29,391	35,196	37,665	41,056
27 MA Institute of Tech	42,427	42,744	52,411	57,181	32,807	33,826	40,848	44,122
28 University of Arizona	47,202	51,099	50,545	57,167	25,141	27,714	27,421	32,101
29 U CA Irvine	44,763	46,390	48,952	57,143	28,318	28,833	33,036	39,950
30 Pennsylvania State U	43,595	46,249	53,873	56,446	27,385	20,790	32,794	35,919
Total, 1st 30 institutions	1,768,276	1,965,370	2,227,234	2,542,071	1,192,897	1,311,435	1,478,392	1,694,923
31 Louisiana State U System	43,784	42,916	50,931	56,366	23,000	25,422	29,572	32,581
32 U Med & Dent of NJ	46,139	45,160	50,211	55,491	26,830	27,962	32,100	37,135
33 SUNY at Albany	37,106	28,221	38,486	55,159	30,678	23,274	34,434	50,670
34 University of Minnesota	46,667	50,431	53,502	54,228	30,417	33,549	35,396	33,317
35 Cornell University	49,038	52,606	49,823	52,559	27,844	29,908	28,645	29,243
36 Ohio State University	41,428	43,622	46,073	52,365	24,511	24,693	24,205	28,026
37 SUNY at Buffalo	38,429	43,013	47,346	52,362	27,854	27,738	29,596	33,921
38 Oregon Health Sciences U	23,281i	28,179i	31,026i	51,801	18,384i	24,220i	28,203i	45,755
39 U CA Los Angeles	16,047	50,563	47,043	51,743	12,335	36,659	31,370	33,860
40 Case Western Reserve U	37,709	42,420	45,270	50,163	27,331	31,789	34,726	39,255
Total, 1st 40 institutions	2,147,904	2,392,501	2,686,945	3,074,308	1,442,081	1,596,649	1,786,639	2,058,686
41 SUNY at Stony Brook	37,263	42,708	44,046	49,072	24,638	28,204	28,424	30,859
42 University of Colorado	38,274	41,438	40,601	48,199	31,599	32,731	34,279	41,457
43 University of Kansas	39,529	37,581	41,879	47,159	19,116	20,141	19,769	22,870
44 Purdue University	42,484	43,305	44,636	46,279	17,621	17,283	17,221	18,839
45 University of Cincinnati	35,761	45,159	42,373	45,463	22,736	29,132	30,223	34,337
46 Emory University	34,336	37,531	40,742	44,884	27,045	31,097	33,978	37,809
47 New York University	40,876	41,339	43,356	44,200	31,367	33,767	33,815	34,497
48 U of Iowa	31,113	34,996	37,860	44,149	20,347	21,700	23,798	27,879
49 Thomas Jefferson U	36,870	37,076	39,632	42,590	28,351	30,322	29,724	34,650
50 Rutgers the State U NJ	35,644	40,216	39,776	42,223	9,769	11,162	11,494	13,960
Total, 1st 50 institutions	2,520,054	2,793,850	3,101,846	3,528,526	1,674,670	1,852,188	2,049,364	2,355,843

See explanatory information and SOURCE at end of table.

Table B-61. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the biological sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 University of Virginia	22,762	28,444	35,555	41,997	18,180	22,523	25,905	31,196
52 U TX Med Br at Galveston	0	0	43,909	41,471	0	0	27,303	27,499
53 U of IL Urbana-Champaign	28,296	34,894	35,384	41,353	19,655	21,253	22,213	24,162
54 U CA San Diego	23,342	21,625	35,619	40,608	16,373	15,227	26,043	30,260
55 Indiana University	32,255	34,999	38,367	40,531	21,954	22,259	24,406	25,511
56 U of IL Chicago	26,615	27,997	32,830	39,590	16,624	16,080	19,257	23,236
57 Washington State U	31,275	35,230	36,994	38,726	14,685	18,043	18,217	19,328
58 University of Chicago	34,951	33,593	35,140	38,325	28,666	28,013	30,216	30,813
59 University of Rochester	31,879	32,171	30,292	37,694	26,405	26,412	24,938	31,985
60 University of Connecticut	26,697	26,519	28,864	35,293	14,493	14,489	15,804	19,300
Total, 1st 60 institutions	2,778,126	3,069,322	3,454,800	3,924,114	1,851,705	2,036,487	2,283,666	2,619,133
61 U TX Hlth Sci Ctr San Ant	29,050	30,312	31,316	34,974	19,757	22,118	23,446	25,949
62 University of Florida	48,499	45,592	51,030	34,476	23,676	23,676	29,159	18,674
63 University of Utah	32,361	30,992	26,549	34,153	25,067	24,931	23,490	27,856
64 UT Houston Hlth Sci Ctr	20,458	23,716	24,590	33,997	13,168	16,123	17,247	25,855
65 Yeshiva University	25,173	24,000	27,093	33,843	20,263	18,400	21,738	24,635
66 U of MD Baltimore	20,221	21,498	21,135	33,652	10,815	11,706	12,677	13,682
67 Texas A&M University	75,452	88,641	87,757	33,216	15,428	20,423	18,399	10,146
68 U MA Worcester	21,357	29,038	30,079	32,296	18,105	26,023	26,301	28,016
69 Iowa State University	29,661	31,045	32,699	32,227	8,322	9,505	10,270	10,819
70 California Inst of Tech	31,240	32,425	26,791	31,932	27,510	31,416	26,077	27,468
Total, 1st 70 institutions	3,111,598	3,426,581	3,813,839	4,258,880	2,033,816	2,240,808	2,492,470	2,832,233
71 Colorado State University	23,184	23,940	30,081	31,277	14,143	13,233	17,158	18,694
72 U of Nebraska Med Ctr	27,035	29,850	34,363	31,245	9,438	10,148	12,732	14,558
73 Clemson University	11,310	18,366	26,765	30,958	3,781	5,745	7,292	8,434
74 U of Missouri Columbia	27,651	28,980	29,330	30,760	11,572	11,328	11,459	13,250
75 Medical Col of Wisconsin	17,037	20,448	22,674	28,980	12,990	15,998	17,375	22,597
76 Medical Col of Georgia	16,640	20,246	21,783	27,765	6,141	7,561	8,825	10,294
77 U of Tennessee System	23,300	23,363	22,621	27,690	16,485	16,148	15,550	19,293
78 University of Oklahoma	23,022	23,860	26,202	26,916	12,804	13,559	14,314	13,005
79 U TX at Austin	19,348	16,100	21,507	26,891	11,117	12,589	14,733	18,409
80 Virginia Commonwealth U	24,490	23,729	24,843	26,825	17,595	17,491	18,163	18,574
Total, 1st 80 institutions	3,324,615	3,655,463	4,074,008	4,548,187	2,149,882	2,364,608	2,630,071	2,989,341
81 Oregon State University	19,696	21,883	25,311	26,003	10,018	10,497	10,745	11,155
82 University of New Mexico	16,193	20,134	19,727	25,465	12,072	15,085	15,098	21,075
83 Princeton University	17,693	17,843	19,429	23,185	11,512	11,424	13,148	15,571
84 U of Nebraska at Lincoln	12,793	12,986 <i>i</i>	20,762	21,964	3,870	3,929 <i>i</i>	5,550	5,649
85 University of Vermont	18,590	17,619	20,324	21,253	13,931	12,569	15,413	16,863
86 University of Miami	16,977	18,103	18,474	20,681	14,689	14,783	15,210	16,444
87 U CA Riverside	4,130	25,184	22,588	20,527	1,757	6,541	4,731	4,198
88 Brandeis University	19,992	20,304	20,127	20,159	14,375	14,762	14,534	14,241
89 Med U of South Carolina	12,028	13,848 <i>i</i>	17,804 <i>e</i>	19,688	8,733	8,130	11,056	13,017
90 SUNY Hlth Sci Ctr Brklyn	7,931	7,633	17,322	18,509	5,209	4,604	14,272	15,089
Total, 1st 90 institutions	3,470,638	3,831,000	4,275,876	4,765,621	2,246,048	2,466,932	2,749,828	3,122,643

See explanatory information and SOURCE at end of table.

Table B-61. Total and federally financed R&D expenditures in the biological sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the biological sciences: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 Oklahoma State University	9,238	10,421	14,784	17,554	4,051	4,404	5,028	6,459
92 U MD Biotechnology Inst	16,823	18,024	17,633	16,940	3,000	4,765	5,623	6,311
93 University of Louisville	7,589	9,221	15,049	16,841	3,758	4,580	4,761	5,624
94 MCP Hahnemann University ..	23,384	28,080	9,590	16,333	17,507	22,402	8,405	14,331
95 Kansas State University	15,504	15,689	15,511	15,881	7,369	7,206	7,099	7,346
96 U MD at College Park	8,262	6,736	9,404	15,296	4,503	5,113	6,195	6,921
97 Stanford University	11,495	10,837	13,799	15,260	9,310	8,712	11,594	12,316
98 Temple University	19,650	19,655	21,905	15,256	10,226	12,220	13,509	12,044
99 Rush University	8,433	9,421	10,742	13,095	5,930	6,749	7,337	6,398
100 Florida State University	9,625	9,709	9,775	12,292	5,031	5,411	5,799	5,905
Total, 1st 100 institutions	3,600,641	3,968,793	4,414,068	4,920,369	2,316,733	2,548,494	2,825,178	3,206,298
Total, all other sampled institutions	579,376	611,794	619,271	688,829	365,688	386,977	389,279	439,909

KEY: e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-62. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the medical sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	6,907,794	7,471,677	8,008,783	9,002,562	4,226,893	4,559,251	4,861,219	5,443,674
1 U CA San Francisco	343,384	379,970	417,095	369,884	206,749	219,630	233,181	193,883
2 U CA Los Angeles	257,687	262,859	280,259	312,078	131,347	122,774	138,132	152,515
3 Johns Hopkins U	221,924	228,317 ⁱ	242,613	258,324	168,051	176,533 ⁱ	190,804	202,668
4 Stanford University	164,997	184,049	202,810	240,992	131,199	145,985	162,450	186,983
5 U of Washington	173,628	184,673	208,752	239,350	131,118	138,569	158,060	177,807
6 University of Pittsburgh	159,996	172,822	202,368	237,966	130,338	138,271	159,532	186,326
7 Duke University	163,325	175,432	227,513	230,670	89,368	88,740	90,674	104,471
8 U CA San Diego	166,771	176,274	179,946	213,430	105,804	111,688	109,662	124,941
9 U of Pennsylvania	137,670	160,236	176,630	199,489	101,955	118,314	131,420	148,823
10 University of Michigan	151,075	169,739	159,844	183,043	93,761	105,041	101,076	112,859
Total, 1st 10 institutions	1,940,457	2,094,371	2,297,830	2,485,226	1,289,690	1,365,545	1,474,991	1,591,276
11 U WI-Madison	134,944	146,515	166,138	179,773	68,726	71,332	70,011	74,842
12 U of MD Baltimore	107,847	114,657	112,723	179,477	57,680	62,430	67,613	72,969
13 University of Minnesota	157,561	148,478	148,885	173,794	95,593	97,374	97,117	111,373
14 Baylor Col of Medicine	102,451	113,761	137,993	172,906	39,887	43,837	55,973	77,279
15 Yale University	136,212	150,623	156,104	169,786	100,781	112,451	117,149	130,375
16 Washington University	126,331	134,460	150,302	164,561	85,426	86,250	94,916	106,261
17 Harvard University	92,939	96,679	112,668	153,796	62,116	76,573	87,613	129,901
18 U of Alabama Birmingham	126,832	150,571	150,941	149,166	91,176	108,723	103,675	111,146
19 U of Southern California	122,287	128,732	133,378	148,314	81,078	81,569	84,793	91,893
20 Cornell University	106,998	117,170	124,879	138,082	62,758	68,326	74,618	82,343
Total, 1st 20 institutions	3,154,859	3,396,017	3,691,841	4,114,881	2,034,911	2,174,410	2,328,469	2,579,658
21 U of Iowa	103,642	110,821	116,988	135,912	62,836	67,335	72,901	84,526
22 Columbia U in City of NY	94,368	103,503	109,152	132,827	80,920	85,197	88,544	113,332
23 Wayne State University	89,512	99,380	108,818	116,063	40,706	43,857	44,983	50,451
24 Emory University	90,209	98,669	109,007	115,760	54,810	61,269	68,489	74,023
25 University of Colorado	88,172	97,047	105,120	111,438	65,335	70,452	80,370	93,510
26 Georgetown University	95,233	92,522	85,697 ^e	107,609	67,431	68,439	66,170	82,703
27 Case Western Reserve U	83,224	90,884	97,140	103,269	66,908	74,591	79,194	86,372
28 U TX SW Med Ctr at Dallas	75,254	83,166	91,496	101,518	44,310	48,602	53,209	53,847
29 U of NC Chapel Hill	78,781	85,172	90,829	99,553	57,697	67,008	71,610	76,970
30 U TX MD Anderson Cnrc Ctr ..	70,244	73,758	80,063	97,326	23,952	32,476	33,686	40,231
Total, 1st 30 institutions	4,023,498	4,330,939	4,686,151	5,236,156	2,599,816	2,793,636	2,987,625	3,335,623
31 Boston University	73,202	76,460	86,658	95,805	59,729	61,463	73,418	81,463
32 University of Florida	56,988	58,587	68,348	95,009	22,517	28,364	32,326	38,784
33 U of IL Chicago	69,364	76,133	86,864	94,381	33,486	37,183	42,909	48,167
34 U of South Florida	56,343	61,344	80,608	91,892	11,465	14,157	21,188	28,399
35 Mt Sinai Sch Med	67,439	69,580	78,154	91,270	40,730	39,788	46,550	54,288
36 Northwestern University	67,978	73,987	88,008	87,605	38,230	38,843	40,965	50,440
37 Indiana University	63,429	70,782	75,755	87,059	36,330	39,839	43,415	46,910
38 U CA Berkeley	50,061	63,545	62,167	86,010	12,750	14,531	13,367	14,234
39 U Med & Dent of NJ	64,244	69,331	76,066	85,460	30,641	31,866	29,630	38,183
40 Wake Forest University	73,572	75,480	80,678	85,083	52,972	55,568	58,868	64,663
Total, 1st 40 institutions	4,666,118	5,026,168	5,469,457	6,135,730	2,938,666	3,155,238	3,390,261	3,801,154
41 University of Cincinnati	80,108	84,419	71,409	84,952	40,918	44,963	52,887	60,122
42 University of Chicago	68,044	69,343	72,861	82,954	56,063	59,667	61,186	66,148
43 University of Miami	77,420	74,257	79,299	82,709	50,413	47,239	48,646	51,783
44 University of Kentucky	50,812	62,164	67,909	82,698	34,133	35,993	37,086	40,070
45 University of Rochester	57,731	74,785	75,767	81,799	37,770	47,813	48,650	53,561
46 Ohio State University	50,447	57,282	66,430	80,300	29,391	31,983	34,223	37,533
47 U CA Davis	70,939	80,792	81,734	79,361	37,869	43,409	45,165	39,118
48 Yeshiva University	50,346	54,000	60,965	76,148	40,527	44,000	48,914	55,430
49 University of Arizona	51,266	53,700	60,917	74,590	30,558	31,479	36,930	42,825
50 University of Virginia	43,795	56,724	63,111	71,776	28,989	36,432	39,605	45,388
Total, 1st 50 institutions	5,267,026	5,693,634	6,169,859	6,933,017	3,325,297	3,578,216	3,843,553	4,293,132

See explanatory information and SOURCE at end of table.

Table B-62. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the medical sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 2 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 U TX Hlth Sci Ctr San Ant	56,969	52,045	56,488	68,850	33,721	29,836	33,458	39,302
52 UT Houston Hlth Sci Ctr	42,298	67,368	69,756	68,805	25,104	47,636	46,343	44,657
53 Oregon Health Sciences U	62,501 i	73,212 i	80,613 i	65,485	39,017 i	50,788 i	59,138 i	50,027
54 New York University	48,259	47,809	54,225	64,090	28,446	27,970	31,967	34,990
55 SUNY at Buffalo	45,886	43,556	51,472	63,675	19,859	16,871	23,637	28,453
56 Vanderbilt University	39,362	45,505	52,456	59,285	29,497	31,623	36,745	39,046
57 Dartmouth College	39,507	47,545	51,140	56,534	31,328	33,129	33,898	39,111
58 U TX Med Br at Galveston	76,466	85,150	48,263	54,655	41,831	48,310	27,456	33,022
59 Rush University	35,549	40,024	44,802	52,830	16,267	19,531	21,752	25,223
60 University of Utah	41,520	38,269	66,691	52,488	31,693	30,127	42,186	41,447
Total, 1st 60 institutions	5,755,343	6,234,117	6,745,765	7,539,714	3,622,060	3,914,037	4,200,133	4,668,410
61 University of Connecticut	41,994	43,083	42,471	50,379	18,751	19,884	20,281	24,380
62 U CA Irvine	31,077	38,868	45,305	49,477	10,400	12,378	15,406	20,830
63 Virginia Commonwealth U	43,122	45,006	42,880	46,724	22,671	25,062	23,477	25,707
64 Texas A&M University	12,898	10,592	19,097	46,591	7,508	7,375	11,186	13,244
65 Thomas Jefferson U	31,999	31,765	38,053	45,792	20,381	20,905	25,985	31,671
66 Medical Col of Wisconsin	34,592	35,573	38,772	41,601	26,374	27,833	29,712	32,437
67 U MA Worcester	27,134	29,843	31,531	40,328	23,841	26,152	26,260	31,972
68 SUNY at Stony Brook	34,523	35,060	34,518	39,652	18,927	20,786	20,160	20,445
69 U of Arkansas Medical Sci	29,989	32,375	31,577	37,613	13,088	15,196	17,606	20,003
70 U of Tennessee System	28,708	30,813	36,393	37,253	14,965	14,057	15,093	17,236
Total, 1st 70 institutions	6,071,379	6,567,095	7,106,362	7,975,124	3,798,966	4,103,665	4,405,299	4,906,335
71 Louisiana State U System	19,972	19,686	26,301	35,966	8,410	8,459	8,549	10,672
72 University of Oklahoma	23,475	28,875	31,709	35,404	11,592	12,987	14,234	11,774
73 Med U of South Carolina	37,884	29,028 i	28,395 e	31,648	22,704	16,107	15,457	19,236
74 U of Missouri Columbia	20,972	24,529	26,870	31,259	6,896	9,114	11,886	13,997
75 C R Drew U of Med & Sci	17,205 e	17,205 e	24,484	31,045	16,052 e	16,052 e	22,212	21,969
76 University of Louisville	17,924	20,056	25,256	28,675	5,880	5,952	6,084	7,396
77 Brown University	21,656	23,617	26,100	28,495	14,437	15,621	16,459	19,609
78 Tulane University	25,827	26,425	28,675	27,513	10,279	10,415	11,043	10,352
79 University of Kansas	13,139	13,755	23,220	26,894	4,789	3,762	10,765	14,025
80 University of Vermont	25,134	24,124	25,662	25,677	13,142	11,216	11,468	14,701
Total, 1st 80 institutions	6,294,567	6,794,395	7,373,034	8,277,700	3,913,147	4,213,350	4,533,456	5,050,066
81 University of Georgia	16,635	18,324	20,872	24,527	2,032	2,182	2,187	2,906
82 TX A&M U Sys Hlth Sci Ctr	--	--	--	24,048	--	--	--	13,411
83 Pennsylvania State U	24,330	26,030	21,693	23,825	15,855	24,068	15,691	16,194
84 George Washington U	21,538	26,576	22,905	22,814	11,749	13,740	14,985	13,607
85 U PR Med Sci Campus	15,575	19,830	17,114	21,373	12,978	11,843	13,971	16,657
86 MCP Hahnemann University ..	55,887	65,697	15,329	20,573	28,038	37,048	6,641	9,688
87 Univ of Hawaii at Manoa	15,129	16,630	17,716	20,433	10,631	11,987	13,016	15,094
88 U of Nebraska Med Ctr	18,330	20,603	19,842	20,212	4,552	5,515	4,435	5,320
89 U Mississippi, All Camp	12,163	13,970	7,100	18,542	5,347	6,274	2,502	8,396
90 West Virginia University	16,136	18,671	17,038	18,527	4,214	5,430	4,825	7,701
Total, 1st 90 institutions	6,490,290	7,020,726	7,532,643	8,492,574	4,008,543	4,331,437	4,611,709	5,159,040

See explanatory information and SOURCE at end of table.

Table B-62. Total and federally financed R&D expenditures in the medical sciences at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in the medical sciences: fiscal years 1997-2000

[Dollars in thousands]

Page 3 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 U of South Carolina	13,016	13,375	18,609	18,022	6,552	6,377	9,472	10,584
92 Medical Col of Georgia	22,003	19,434	19,217	17,754	5,763	5,566	5,166	4,916
93 Rutgers the State U NJ	16,520	16,364	20,506	17,518	8,159	8,356	8,322	7,128
94 Michigan State University	11,133	12,554	13,505	17,248	5,670	6,381	7,985	9,782
95 Loma Linda University	11,082	7,532	12,072	16,032	6,665	4,202	6,914	11,654
96 Unif Svcs U of Hlth Sci	9,824	10,995	13,350	15,656	4,814	4,086	5,653	7,194
97 Wright State University	8,038	10,043	11,787	14,599	5,488	6,355	7,386	6,982
98 MA Institute of Tech	311	0	13,541	14,553	100	0	7,697	9,592
99 Temple University	20,110	24,852	17,425	14,383	8,551	8,402	7,770	11,040
100 University of New Mexico	9,753	11,136	11,274	14,349	7,275	7,652	9,293	11,906
Total, 1st 100 institutions	6,612,080	7,147,011	7,683,929	8,652,688	4,067,580	4,388,814	4,687,367	5,249,818
Total, all other sampled institutions	295,714	324,666	324,854	349,874	159,313	170,437	173,852	193,856

KEY:
 -- = not available
 e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-63. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in psychology: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	396,053	444,163	464,314	516,365	271,343	298,606	309,318	350,024
1 U WI-Madison	15,738	17,973	20,009	23,237	11,896	14,027	15,437	17,657
2 University of Oklahoma	5,731	7,845	11,778	13,927	1,981	3,006	3,231	4,632
3 Pennsylvania State U	6,345	8,864	10,774	11,227	4,640	5,676	6,621	6,049
4 New York University	5,287	5,455	4,944	9,909	4,555	4,251	3,907	7,874
5 U of Washington	8,753	9,911	9,228	9,493	7,910	8,925	8,432	8,716
6 Univ of Memphis, The	5,832	6,405	7,355	9,375	2,637	2,711	3,229	5,143
7 University of Michigan	8,648	10,712	8,285	9,076	4,443	5,412	4,367	4,337
8 Indiana University	6,863	7,210	8,552	9,073	5,236	5,460	6,281	6,090
9 U CA Los Angeles	7,233	7,374	8,623	9,012	5,028	5,074	5,680	6,501
10 U of IL Urbana-Champaign	4,923	6,881	7,385	8,872	3,358	4,332	4,765	5,512
Total, 1st 10 institutions	75,353	88,630	96,933	113,201	51,684	58,874	61,950	72,511
11 University of Minnesota	6,983	6,930	7,095	8,218	5,389	5,471	5,068	5,175
12 University of Rochester	5,927	6,649	6,276	7,975	2,707	3,323	4,036	4,761
13 University of Connecticut	5,477	5,189	5,488	7,876	2,486	2,545	2,406	4,219
14 University of Colorado	6,814	7,348	7,453	7,799	4,491	4,099	4,350	6,284
15 Rutgers the State U NJ	6,013	7,153	8,155	7,758	3,087	3,087	3,440	3,262
16 University of Georgia	5,271	6,025	6,979	7,632	1,663	2,221	2,516	2,771
17 U of South Florida	5,066	7,004	6,636	7,542	1,877	3,259	2,908	2,875
18 U CA Berkeley	5,942	7,449	7,080	7,218	3,517	4,500	4,696	4,459
19 Georgia State University	5,621	7,412	7,604	7,182	2,668	3,030	2,694	3,204
20 University of Miami	4,204	5,276	5,914	6,893	4,114	5,055	5,829	6,725
Total, 1st 20 institutions	132,671	155,065	165,613	189,294	83,683	95,464	99,893	116,246
21 U of Alabama Birmingham	5,916	5,403	5,117	6,233	5,408	4,989	4,423	5,763
22 CA St U Long Beach	31e	98i	73i	6,187	31e	52i	73i	3,550
23 San Diego St University	3,383	4,650	4,436	6,160	2,610	2,761	2,391	4,137
24 Cornell University	4,577	5,642	6,372	6,077	1,937	2,103	2,327	2,083
25 Carnegie Mellon U	5,558	6,382	6,300	5,880	4,124	4,134	4,026	4,095
26 University of New Mexico	3,916	3,950	4,492	5,872	2,822	2,663	3,119	4,232
27 Arizona State University	5,573	5,960	5,616	5,438	4,147	4,426	4,115	3,678
28 U CA San Diego	3,391	3,552	5,012	5,364	2,377	2,480	3,491	4,370
29 Princeton University	5,277	5,978	5,246	5,259	4,072	5,086	4,080	3,743
30 University of Florida	2,910	3,472	4,478	5,122	2,062	2,289	3,127	3,591
Total, 1st 30 institutions	173,203	200,152	212,755	246,886	113,273	126,447	131,065	155,488
31 Oregon Health Sciences U	4,684i	3,639i	4,007i	5,041	4,165i	3,280i	3,820i	4,980
32 SUNY at Buffalo	4,340	5,590	5,391	4,990	3,594	4,223	3,954	3,514
33 U MA Amherst	3,447	4,135	4,071	4,788	2,515	3,009	2,932	3,449
34 Stanford University	4,082	3,834	4,103	4,584	3,477	3,418	3,420	3,830
35 University of Pittsburgh	3,037	4,293	4,455	4,546	2,790	4,037	4,172	3,865
36 U of Missouri Columbia	2,548	3,474	4,235	4,515	1,511	2,426	2,964	2,863
37 Ohio State University	3,879	3,830	3,664	4,480	2,846	2,716	2,890	3,422
38 Harvard University	3,142	3,854	4,548	4,387	2,521	3,422	3,953	4,059
39 Temple University	3,507	5,829	4,262	4,360	2,158	3,151	2,229	2,962
40 Georgia Institute of Tech	2,450	2,920	3,457	4,358	1,148	1,280	1,480	1,806
Total, 1st 40 institutions	208,319	241,550	254,948	292,935	139,998	157,409	162,879	190,238
41 Florida State University	3,363	4,027	4,589	4,234	2,242	2,728	3,030	2,877
42 Yale University	3,212	3,089	3,625	4,162	2,157	2,401	2,450	2,698
43 U of IL Chicago	4,160	3,445	4,388	4,155	3,142	2,298	2,607	2,567
44 SUNY at Stony Brook	2,798	2,705	3,024	4,057	2,051	2,077	2,196	2,394
45 U of South Carolina	1,828	3,231	3,925	4,013	1,374	2,470	2,933	2,890
46 U of Southern California	2,227	3,483	3,987	3,965	1,912	3,140	3,705	3,394
47 U of NC Chapel Hill	3,643	3,149	3,070	3,710	3,101	2,979	2,747	3,370
48 Michigan State University	2,671	2,205	2,526	3,664	1,805	1,256	1,645	2,514
49 Duke University	4,705	4,472	4,276	3,645	3,732	4,031	3,836	3,089
50 Johns Hopkins U	1,641	3,484	3,383	3,636	1,543	3,371	3,237	3,453
Total, 1st 50 institutions	238,567	274,840	291,741	332,176	163,057	184,160	191,265	219,484

See explanatory information and SOURCE at end of table.

Table B-63. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in psychology: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 U of Rhode Island	3,457 <i>i</i>	4,855	4,365	3,434	3,326 <i>i</i>	4,490	3,951	3,250
52 U TX at Austin	2,663	3,072	2,798	3,423	2,404	2,584	2,227	2,980
53 Boston University	1,659	2,271	2,465	3,349	1,307	1,800	2,364	3,295
54 U CA Irvine	2,187	2,658	2,057	3,313	1,958	2,313	1,561	2,358
55 U MD at College Park	2,455	1,530	1,913	3,233	1,318	1,156	1,536	2,394
56 U of Iowa	2,724	2,689	2,788	3,180	2,282	2,269	2,060	2,252
57 Dartmouth College	887	1,132	1,216	3,100	618	500	428	2,431
58 Wayne State University	1,929	2,980	2,775	3,096	1,406	2,035	1,793	1,915
59 Columbia U in City of NY	2,685	2,932	2,735	3,066	2,619	2,818	2,488	2,865
60 University of Virginia	2,702	3,115	3,249	3,002	2,225	2,657	2,810	2,572
Total, 1st 60 institutions	261,915	302,074	318,102	364,372	182,520	206,782	212,483	245,796
61 Teachers Col, Columbia U	680	2,145	2,250	2,992	465	1,490	1,504	2,471
62 SUNY at Binghamton	4,005	3,171	3,368	2,991	1,348	1,230	1,480	1,773
63 Purdue University	2,553	2,497	2,727	2,965	1,565	1,771	1,653	1,634
64 University of Houston	2,852	3,002	3,024	2,954	1,888	2,090	1,951	1,715
65 Northwestern University	1,308	1,962	1,911	2,952	1,112	1,522	1,595	1,836
66 San Jose State University	2,938 <i>i</i>	2,938e	2,938e	2,938e	2,698 <i>i</i>	2,698e	2,698e	2,698e
67 Tufts University	2,040	2,168	2,753	2,933	1,347	1,300	1,488	1,312
68 U of Pennsylvania	2,752	3,111	3,470	2,903	2,626	2,937	3,380	2,564
69 Texas A&M University	2,334	2,236	2,859	2,752	1,162	1,402	1,721	1,583
70 Colorado State University	2,729	3,916	3,252	2,679	2,480	3,044	2,764	2,530
Total, 1st 70 institutions	286,106	329,220	346,654	393,431	199,211	226,266	232,717	265,912
71 Vanderbilt University	2,369	2,011	2,262	2,674	1,885	1,644	1,774	2,264
72 University of Oregon	2,011	2,036	2,103	2,525	1,637	1,552	1,819	2,333
73 SUNY at Albany	2,403	2,416	3,054	2,489	1,803	1,975	2,228	1,767
74 University of Chicago	1,297	1,887	2,393	2,306	810	1,225	1,289	1,383
75 U CA Santa Barbara	4,979	1,420	1,777	2,222	3,800	1,240	1,426	1,830
76 Brown University	2,574	2,514	2,236	2,143	1,611	1,600	1,396	1,400
77 CUNY Hunter College	1,597	1,913	1,644	2,143	922	1,000	864	1,578
78 VA Polytech Inst & St U	2,358	2,971	2,613	2,142	1,551	2,046	1,777	1,057
79 Virginia Commonwealth U	1,771	2,864	1,928	2,081	825	1,007	1,129	1,417
80 Texas Christian U	2,176	2,225	2,794	2,043	2,169	2,221	2,790	2,037
Total, 1st 80 institutions	309,641	351,477	369,458	416,199	216,224	241,776	249,209	282,978
81 University of Denver	1,532	1,699	1,743	1,916	1,464	1,627	1,660	1,907
82 George Mason University	1,532	1,954	2,165	1,903	1,265	1,787	1,877	1,766
83 U of Nebraska at Lincoln	1,161	1,177 <i>i</i>	1,536	1,901	329	333 <i>i</i>	182	186
84 U CA Riverside	1,466	2,364	1,986	1,867	1,319	2,209	1,985	1,652
85 Syracuse University	959 <i>i</i>	1,798	1,873	1,865	573 <i>i</i>	701	1,420	1,400
86 University of Utah	1,093	1,043	1,627	1,836	926	871	1,298	1,637
87 University of Louisville	52	251	2,220	1,819	25	112	1,260	982
88 University of Delaware	1,312	1,439	1,569	1,725	858	957	1,079	1,270
89 Brandeis University	1,275	1,483	1,372	1,712	1,025	1,272	1,301	1,641
90 Washington University	1,311	964	1,692	1,663	1,057	887	1,439	1,469
Total, 1st 90 institutions	321,334	365,649	387,241	434,406	225,065	252,532	262,710	296,888

See explanatory information and SOURCE at end of table.

Table B-63. Total and federally financed R&D expenditures in psychology at universities and colleges, ranked by fiscal year 2000 total R&D expenditures in psychology: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 Florida Atlantic U	1,613	1,342	1,494	1,636	1,420	1,205	1,334	1,414
92 U of Missouri St Louis	922	2,000	1,514	1,549	544	821	902	696
93 U CA Davis	1,743	1,558	1,494	1,509	1,481	1,375	1,203	1,004
94 CUNY Brooklyn College	691	729e	917	1,441	515	543e	619	1,035
95 U PR Rio Piedras Campus	1,311	1,307	1,509	1,372	1,205	1,148	1,281	1,184
96 MA Institute of Tech	0	0	1,080	1,357	0	0	832	1,008
97 University of Notre Dame	690	781	974	1,355	488	603	696	1,084
98 Northern Illinois U	875	254	942	1,348	654	146	575	677
99 University of Alabama, The	161	315	460	1,346	154	310	354	1,258
100 U of New Hampshire	1,207	1,819	1,206	1,300	1,095	1,624	1,087	1,118
Total, 1st 100 institutions	330,547	375,754	398,831	448,619	232,621	260,307	271,593	307,366
Total, all other sampled institutions	65,506	68,409	65,483	67,746	38,722	38,299	37,725	42,658

KEY: e = estimated
 i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

**Table B-64. R&D expenditures in the social sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the social sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 1 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
Total, all institutions	1,125,250	1,131,131	1,253,512	1,295,905	254,927	227,175	301,890	511,913
1 University of Michigan	58,366	48,299	56,723	56,840	9,874	3,860	12,545	30,561
2 U MD at College Park	29,374	41,544	58,148	54,827	7,296	6,168	1,859	39,504
3 U CA Berkeley	39,638	35,559	38,531	41,708	6,148	13,426	8,081	14,053
4 U CA Los Angeles	25,272	25,580	28,802	32,915	947	3,194	6,133	22,641
5 Harvard University	44,843	39,501	33,073	31,473	13,976	15,689	595	1,213
6 University of Georgia	27,111	27,512	31,228	31,287	10,791	2,926	1,976	15,594
7 U WI-Madison	27,384	28,827	28,154	31,083	10,345	1,865	8,220	10,653
8 U of Pennsylvania	19,457	17,289	25,405	30,842	2,966	9,993	8,525	9,358
9 Indiana University	16,870	15,629	21,829	29,271	2,564	11,106	5,127	10,474
10 U of IL Urbana-Champaign	16,895	19,426	21,908	24,868	8,758	1,587	3,913	10,610
Total, 1st 10 institutions	305,210	299,166	343,801	365,114	73,665	69,814	56,974	164,661
11 Rutgers the State U NJ	17,074	17,698	20,219	22,708	1,265	8,926	4,969	7,548
12 U of NC Chapel Hill	25,852	24,649	22,556	22,325	35	0	7,710	14,580
13 Ohio State University	21,124	18,786	21,809	20,035	3,731	1,925	2,335	12,044
14 Brandeis University	13,883	17,329	21,682	19,575	232	245	18,222	876
15 Michigan State University	15,998	15,681	18,731	18,524	9,085	2,767	1,512	5,160
16 Purdue University	12,278	15,046	17,707	18,050	6,488	337	1,804	9,421
17 Princeton University	13,376	13,156	14,709	16,544	3,180	12,274	375	715
18 Pennsylvania State U	38,006	44,048	45,289	16,529	2,367	1,533	7,697	4,932
19 Iowa State University	11,982	12,943	15,369	15,842	4,682	317	10,534	309
20 University of Arizona	11,927	13,208	14,184	15,044	4,735	192	8,248	1,869
Total, 1st 20 institutions	486,710	491,710	556,056	550,290	109,465	98,330	120,380	222,115
21 Georgia State University	7,488	8,868	15,192	14,748	7,285	2,373	4,575	515
22 Duke University	9,594	10,407	11,580	14,656	1,825	4,503	5,447	2,881
23 University of Minnesota	14,120	14,113	14,008	14,567	8,291	1,603	1,484	3,189
24 Florida State University	5,087	6,097	9,213	13,065	186	2,162	3,373	7,344
25 Cornell University	10,889	11,066	12,750	12,963	4,430	22	1,730	6,781
26 U of Missouri Columbia	10,517	10,719	11,424	12,393	5,903	2,589	1,711	2,190
27 Temple University	7,683	7,359	5,023	10,939	115	2,225	8,385	214
28 Johns Hopkins U	14,845	3,688	7,760	10,588	669 <i>i</i>	21 <i>i</i>	5,312 <i>i</i>	4,586 <i>i</i>
29 U of Nebraska at Lincoln	4,966	5,041 <i>i</i>	10,380	10,505	3,791	782	2,010	3,922
30 University of Oklahoma	10,768	10,061	8,970	9,896	1,828	1,868	415	5,785
Total, 1st 30 institutions	582,667	579,129	662,356	674,610	143,788	116,478	154,822	259,522
31 U CA San Diego	8,583	9,302	10,084	9,668	707	2,944	5,499	518
32 U TX at Austin	5,090	7,195	9,295	9,617	455	165	2,688	6,309
33 Arizona State University	7,684	8,564	9,248	9,591	2,490	1,342	364	5,395
34 U of South Carolina	5,925	7,679	9,442	9,540	876	3,858	2,127	2,679
35 University of Florida	12,468	8,682	10,217	9,525	7,295	158	678	1,394
36 Washington State U	11,271	9,834	9,259	9,450	5,734	148	3,444	124
37 U of IL Chicago	7,942	5,080	8,321	9,439	346	71	2,732	6,290
38 Carnegie Mellon U	7,367	8,416	9,101	9,193	1,829	4,127	324	2,913
39 Portland State University	4,130	4,996	7,069	9,095	290	356	145	8,304
40 U CA Santa Barbara	7,472	7,451	8,037	8,974	27	142	102	8,703
Total, 1st 40 institutions	660,599	656,328	752,429	768,702	163,837	129,789	172,925	302,151
41 George Washington U	6,461	7,303	6,461	8,827	223	3,978	2,060	2,566
42 CA St U Long Beach	0 <i>e</i>	0 <i>i</i>	0 <i>i</i>	8,552	4,998	0	0	3,554
43 University of Connecticut	9,033	7,772	6,409	8,552	2,792	1,319	984	3,457
44 Louisiana State U System	6,753	8,223	9,325	8,331	3,468	329	1,926	2,608
45 MA Institute of Tech	16,839	11,627	8,908	8,293	2,931	2,888	540	1,934
46 Northwestern University	5,079	5,993	6,569	8,260	758	5,702	670	1,130
47 U of Washington	11,730	11,805	15,415	8,029	249	5,609	243	1,928
48 U of Iowa	6,766	7,851	7,854	7,970	676	2,651	1,769	2,874
49 Oklahoma State University	4,731	5,205	8,861	7,796	4,830	304	532	2,130
50 University of Pittsburgh	5,439	4,142	6,166	7,750	697	612	775	5,666
Total, 1st 50 institutions	733,430	726,249	828,397	851,062	185,459	153,181	182,424	329,998

See explanatory information and SOURCE at end of table.

**Table B-64. R&D expenditures in the social sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the social sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

Page 2 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
51 U of Southern California	7,859	6,404	6,437	7,640	153	1,279	2,725	3,483
52 Georgetown University	3,220	4,663	6,816e	7,500	440	3,916	2,025	1,119
53 VA Polytech Inst & St U	5,059	5,273	5,271	7,419	995	2,408	44	3,972
54 SUNY at Albany	6,118	6,882	7,542	7,389	125	1,129	3,246	2,889
55 Texas A&M University	17,826	19,593	16,784	7,227	1,721	2,595	834	2,077
56 George Mason University	4,864	6,312	6,907	7,219	1,294	5,575	298	52
57 University of Colorado	4,215	3,375	5,921	7,160	367	464	5,190i	1,139
58 NC State University	6,221	4,866	5,504	6,918	3,037	119	2,198	1,564
59 U MA Boston	5,916	6,311	6,776	6,664	0	739	671	5,254
60 University of New Mexico	4,510	5,446	6,671	6,574	254	1,303	484	4,533
Total, 1st 60 institutions	799,238	795,374	903,026	922,772	193,845	172,708	200,139	356,080
61 Stanford University	6,459	5,715	6,603	6,445	342	162	498	5,443
62 SUNY at Buffalo	3,558	5,710	5,317	6,301	530	479	662	4,630
63 Texas Tech University	3,433	4,621	5,704	5,946	1,256	900	3,158	632
64 San Diego St University	1,769	3,736	2,728	5,893	342	361	1,727	3,463
65 Case Western Reserve U	4,791	4,708	5,060	5,773	748	0	1,095	3,930
66 University of Kansas	4,843	3,776	3,426	5,711	89	1,919	3,580	123
67 Tufts University	4,433	5,697	4,096	5,606	0	4,386	983	237
68 New York University	5,702	5,798	5,979	5,566	1,162	2,049	716	1,639
69 U CA Irvine	4,644	4,457	5,766	5,494	32	1,944	581	2,937
70 Columbia U in City of NY	6,222	5,882	4,899	5,413	447	140	4,686	140
Total, 1st 70 institutions	845,092	845,474	952,604	980,920	198,793	185,048	217,825	379,254
71 Wayne State University	5,868	6,373	5,276	5,358	226	46	488	4,598
72 Vanderbilt University	3,648	4,379	4,118	5,291	57	5,081	10	143
73 U of Tennessee System	4,908	4,720	4,920	5,221	3,388	749	699	385
74 U of Central Florida	6,041	4,641	3,813	5,204	243	32	1,797	3,132
75 Naval Postgrad School	4,409	4,647i	4,647i	5,108i	1,565i	1,001i	2,271i	271i
76 U WI-Milwaukee	5,606	5,075	5,885	5,042	285	115	453	4,189
77 University of Delaware	3,555	4,749	4,961	4,918	124	26	3,493	1,275
78 U of New Hampshire	2,867	4,381	4,629	4,781	7	50	2,541	2,183
79 Cleveland State U	5,267i	5,425e	5,939i	4,775	0	0	199	4,576
80 North Dakota State U	1,847	1,113	3,558	4,769	833	0	55	3,881
Total, 1st 80 institutions	889,108	890,977	1,000,350	1,031,387	205,521	192,148	229,831	403,887
81 Univ of Memphis, The	3,708	4,138	5,034	4,748	2,310	283	1,752	403
82 Brown University	4,386	4,894	4,724	4,613	706	685	581	2,641
83 Georgia Institute of Tech	2,468	2,595	3,026	4,594	2,405	976	976	237
84 Clemson University	6,345	4,014	3,906	4,518	1,031	2,312	201	974
85 Teachers Col, Columbia U	122	3,910	4,235	4,492	1,498	0	0	2,994
86 New School University	4,454	3,287	4,363	4,447	780	800	412	2,455
87 Mississippi State U	4,771	3,506	3,829	4,349	60	732	358	3,199
88 U of Alaska Fairbanks	3,528i	3,668i	3,765	4,345	359	0	0	3,986
89 Washington University	2,367	2,545	2,877	4,217	0	322	3,756	139
90 Boston College	1,002	2,111	2,637	4,204	1,402	300	468	2,034
Total, 1st 90 institutions	922,259	925,645	1,038,746	1,075,914	216,072	198,558	238,335	422,949

See explanatory information and SOURCE at end of table.

**Table B-64. R&D expenditures in the social sciences at universities and colleges,
ranked by fiscal year 2000 R&D expenditures in the social sciences:
fiscal years 1997-2000 and by subfield for 2000**

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
91 Florida International U	2,676	2,758	5,770	3,864	0	0	0	3,864
92 University of Akron	1,073	458	2,962	3,721	13	368	3,224	116
93 U CA Davis	3,486	3,276	3,106	3,649	164	2,109	832	544
94 Univ of Hawaii at Manoa	3,332	4,002	3,409	3,611	693	2	205	2,711
95 Indiana State University	334	4,537	4,373	3,588	0	0	3,588	0
96 SUNY at Binghamton	3,422	3,152	3,136	3,537	0	1,142	2,312	83
97 University of Cincinnati	1,087	2,397	3,166	3,381	121	259	214	2,787
98 U TX at San Antonio	4,731 i	2,272	2,841	3,348	296	0	0	3,052
99 U CA Riverside	1,561	2,122	2,567	3,337	355	849	748	1,385
100 Emory University	1,492	895	1,073	3,292	1,867	575	787	63
Total, 1st 100 institutions	945,453	951,514	1,071,149	1,111,242	219,581	203,862	250,245	437,554
Total, all other sampled institutions	179,797	179,617	182,363	184,663	35,346	23,313	51,645	74,359

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-65. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the social sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Economics	Political science	Sociology	Other
Total, all institutions	408,768	425,432	472,009	490,137	89,046	61,892	136,991	202,208
1 University of Michigan	28,063	26,179	37,293	42,739	8,279	3,046	7,790	23,624
2 U MD at College Park	13,351	26,692	35,385	30,484	2,918	768	1,136	25,662
3 U of NC Chapel Hill	18,120	17,005	15,750	14,633	0	0	6,056	8,577
4 Harvard University	24,151	21,225	13,426	14,119	7,236	6,095	30	758
5 U WI-Madison	12,164	12,377	12,995	14,113	5,341	82	3,792	4,898
6 Duke University	6,371	6,831	7,563	10,924	1,144	2,812	5,121	1,847
7 Iowa State University	6,483	6,961	8,754	9,414	1,751	0	7,454	209
8 Michigan State University	7,364	7,457	9,516	9,070	4,874	778	524	2,894
9 U of Pennsylvania	5,817	5,971	5,942	8,585	1,393	1,465	3,184	2,543
10 Johns Hopkins U	9,272	1,924	5,355	8,019	621 i	21 i	4,516 i	2,861 i
Total, 1st 10 institutions	131,156	132,622	151,979	162,100	33,557	15,067	39,603	73,873
11 Ohio State University	10,783	9,265	12,504	7,992	1,115	1,062	511	5,304
12 Carnegie Mellon U	3,862	5,698	6,464	6,750	1,115	3,349	196	2,090
13 Portland State University	2,716	3,558	5,388	6,451	143	18	24	6,266
14 University of Arizona	4,616	4,955	5,841	5,979	1,602	87	3,574	716
15 CA St U Long Beach	0e	0i	0i	5,861	3,597	0	0	2,264
16 Temple University	3,415	2,114	4,298	5,820	0	1,090	4,686	44
17 U CA Berkeley	3,493	4,123	5,430	5,613	2,099	1,119	1,658	737
18 Brandeis University	5,842	7,475	9,587	5,585	15	0	5,552	18
19 University of Colorado	2,464	2,403	4,178	5,427	295	201	4,261 i	670
20 Pennsylvania State U	11,288	11,806	12,362	5,221	776	257	2,784	1,404
Total, 1st 20 institutions	179,635	184,019	218,031	222,799	44,314	22,250	62,849	93,386
21 Florida State University	1,340	2,143	2,711	5,143	0	441	940	3,762
22 Naval Postgrad School	4,333	4,564 i	4,564 i	5,000 i	1,564 i	921 i	2,244 i	271 i
23 U CA Santa Barbara	3,718	3,491	4,121	4,984	0	2	5	4,977
24 Indiana University	3,729	4,710	4,919	4,821	224	1,799	2,382	416
25 University of Pittsburgh	3,087	2,637	4,340	4,800	431	289	598	3,482
26 U of Missouri Columbia	4,216	3,718	3,693	4,703	2,175	1,624	817	87
27 Rutgers the State U NJ	5,516	5,011	4,294	4,687	413	266	1,589	2,419
28 U TX at Austin	2,108	2,088	2,273	4,416	269	0	2,049	2,098
29 U CA San Diego	3,621	4,759	4,630	4,327	574	532	3,103	118
30 SUNY at Albany	3,453	3,502	4,156	4,239	56	131	1,590	2,462
Total, 1st 30 institutions	214,756	220,642	257,732	269,919	50,020	28,255	78,166	113,478
31 Vanderbilt University	2,618	3,247	3,165	3,879	48	3,827	4	0
32 Cornell University	2,800	2,849	4,107	3,858	1,211	0	836	1,811
33 U of IL Urbana-Champaign	3,875	4,057	3,688	3,858	960	353	317	2,228
34 George Mason University	3,128	3,852	3,763	3,791	0	3,596	145	50
35 Princeton University	2,403	2,446	2,560	3,545	306	3,184	30	25
36 U of Nebraska at Lincoln	1,475	1,497 i	3,311	3,324	67	51	204	3,002
37 Columbia U in City of NY	4,437	4,648	3,747	3,216	223	0	2,907	86
38 North Dakota State U	660	705	2,286	3,105	366	0	14	2,725
39 University of Miami	3,721	3,511	3,389	3,051	127	5	641	2,278
40 U of Southern California	3,316	3,042	2,927	3,009	130	87	1,080	1,712
Total, 1st 40 institutions	243,189	250,496	290,675	304,555	53,458	39,358	84,344	127,395
41 Purdue University	2,444	2,647	2,730	2,993	2,091	62	373	467
42 Washington University	1,874	2,092	2,232	2,904	0	185	2,633	86
43 University of Minnesota	2,417	2,117	2,127	2,891	1,360	389	962	180
44 Georgia State University	847	2,777	6,579	2,806	2,430	0	328	48
45 U CA Los Angeles	3,118	2,753	3,119	2,796	230	118	519	1,929
46 U of South Carolina	2,121	2,398	2,359	2,779	468	392	780	1,139
47 Northwestern University	2,095	2,699	1,915	2,725	361	2,129	192	43
48 University of Georgia	1,838	2,123	1,873	2,658	820	53	0	1,785
49 University of Delaware	2,259	2,890	2,312	2,567	16	0	2,344	207
50 Univ of Memphis, The	398	654	298	2,524	1,343	48	1,057	76
Total, 1st 50 institutions	262,600	273,646	316,219	332,198	62,577	42,734	93,532	133,355

See explanatory information and SOURCE at end of table.

Table B-65. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the social sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
51 U of IL Chicago	3,409	1,350	1,368	2,503	77	37	1,321	1,068
52 Washington State U	4,318	3,153	2,981	2,461	1,843	20	598	0
53 Georgetown University	1,222	1,837	2,372	2,440	53	690	1,690	7
54 George Washington U	2,234	1,600	1,498	2,403	173	1,232	784	214
55 University of New Mexico	1,532	1,890	2,498	2,382	220	515	278	1,369
56 University of Oklahoma	721	3,571	2,175	2,354	3	93	26	2,232
57 U of LA Monroe, The	1,671	1,190	2,353	2,353e	1,813e	0e	540e	0e
58 Texas Tech University	1,464	1,972	2,356	2,318	186	10	2,106	16
59 Florida International U	2,164	2,229	629	2,264	0	0	0	2,264
60 Teachers Col, Columbia U	94	1,213	1,992	2,224	372	0	0	1,852
Total, 1st 60 institutions	281,429	293,651	336,441	355,900	67,317	45,331	100,875	142,377
61 U of Alaska Fairbanks	399i	446i	1,644	2,211	176	0	0	2,035
62 University of Chicago	2,623	2,296	3,443	2,117	104	1,159	39	815
63 University of Akron	595	326	2,198	2,113	0	0	2,022	91
64 Syracuse University	1,626i	1,994	2,120	2,090	267	264	547	1,012
65 Boston College	336	564	959	2,041	1,027	0	147	867
66 Case Western Reserve U	1,740	1,175	1,511	2,031	95	0	1,040	896
67 U WI-Milwaukee	2,091	1,905	2,165	2,025	178	17	140	1,690
68 New York University	1,700	1,738	3,334	2,013	721	838	454	0
69 U of Iowa	1,949	2,299	2,146	1,991	436	825	586	144
70 Howard University	1,181	850	878	1,987	81	0	1,837	69
Total, 1st 70 institutions	295,669	307,244	356,839	376,519	70,402	48,434	107,687	149,996
71 University of Kansas	320	332	659	1,983	71	468	1,338	106
72 Oklahoma State University	581	1,508	2,840	1,965	707	105	1	1,152
73 MA Institute of Tech	5,268	5,922	2,328	1,954	850	551	86	467
74 U of New Hampshire	949	1,777	1,614	1,933	0	24	1,730	179
75 Georgia Institute of Tech	1,156	1,137	1,295	1,905	996	405	405	99
76 Arizona State University	1,560	1,351	1,472	1,847	7	0	110	1,730
77 SUNY at Buffalo	1,426	922	1,238	1,826	0	44	34	1,748
78 Univ of Montana, The	207	337	854	1,821	702	0	0	1,119
79 Louisiana State U System	975	1,148	1,523	1,753	521	52	554	626
80 U CA Irvine	1,841	1,648	2,158	1,746	0	885	192	669
Total, 1st 80 institutions	309,952	323,326	372,820	395,252	74,256	50,968	112,137	157,891
81 Univ of Hawaii at Manoa	1,169	1,081	1,186	1,700	85	0	50	1,565
82 U of Tennessee System	1,620	1,538	1,786	1,693	866	231	454	142
83 Texas A&M University	4,509	4,833	3,880	1,685	67	841	720	57
84 University of Cincinnati	655	1,440	1,336	1,675	0	154	25	1,496
85 Stanford University	1,150	986	1,638	1,668	113	14	294	1,247
86 Tulane University	228	228	1,306	1,656	0	0	137	1,519
87 SUNY at Binghamton	939	380	643	1,590	0	204	1,371	15
88 Colorado State University	1,539	686	1,140	1,558	328	0	108	1,122
89 U of Maine	843	345	553	1,551	221	0	0	1,330
90 U MD Baltimore County	755	806	1,528	1,433	0	0	387	1,046
Total, 1st 90 institutions	323,359	335,649	387,816	411,461	75,936	52,412	115,683	167,430

See explanatory information and SOURCE at end of table.

Table B-65. Federally financed R&D expenditures in the social sciences at universities and colleges, ranked by fiscal year 2000 federally financed R&D expenditures in the social sciences: fiscal years 1997-2000 and by subfield for 2000

[Dollars in thousands]

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Institution and ranking	1997	1998	1999	2000	2000, by subfield			
					Eco-nomics	Political science	Soci-ology	Other
91 VA Polytech Inst & St U	738	1,050	1,956	1,402	43	742	5	612
92 Northern Arizona U	1,657 <i>i</i>	1,677	1,442	1,363	0	4	670	689
93 Mississippi State U	1,967	1,858	1,818	1,357	0	76	100	1,181
94 Gallaudet University	563 <i>i</i>	1,281	1,339	1,333	0	0	917	416
95 Sam Houston State U	74	37 <i>i</i>	1,620	1,321	0	0	0	1,321
96 U of Central Florida	2,094	1,499	1,326	1,321	59	19	490	753
97 San Diego St University	285	320	170	1,317	28	0	44	1,245
98 University of Oregon	733	901	1,089	1,312	177	210	178	747
99 U TX at San Antonio	3,037 <i>i</i>	1,270	1,395	1,306	2	0	0	1,304
100 Stevens Inst of Tech	161	1,694	1,007	1,283	0	0	0	1,283
Total, 1st 100 institutions	334,668	347,236	400,978	424,776	76,245	53,463	118,087	176,981
Total, all other sampled institutions	74,100	78,196	71,031	65,361	12,801	8,429	18,904	25,227

KEY:
e = estimated
i = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-66. Current fund expenditures for research equipment at universities and colleges, by science and engineering field and source of funds: fiscal years 1993, 1999, and 2000

[Dollars in thousands]

Field	Total			Federal			Non-Federal		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total	1,041,887	1,318,582	1,421,038	638,085	765,490	796,909	403,802	553,092	624,129
Engineering	218,043	285,681	306,023	128,154	167,359	168,915	89,889	118,322	137,108
Aeronautical and astronautical	13,272	21,904	20,171	10,794	15,515	12,909	2,478	6,389	7,262
Bioengineering/bio- medical	--	7,681	13,771	--	3,587	5,859	--	4,094	7,912
Chemical	21,551	27,284	25,899	10,075	13,429	13,473	11,476	13,855	12,426
Civil	18,412	23,242	28,470	8,190	11,447	10,034	10,222	11,795	18,436
Electrical	55,809	69,899	71,014	36,766	45,752	44,064	19,043	24,147	26,950
Mechanical	34,563	50,728	54,701	22,288	32,340	35,560	12,275	18,388	19,141
Metallurgical and materials	23,411	28,341	30,391	11,928	17,276	18,623	11,483	11,065	11,768
Other, n.e.c.	51,025	56,602	61,606	28,113	28,013	28,393	22,912	28,589	33,213
All sciences	823,844	1,032,901	1,115,015	509,931	598,131	627,994	313,913	434,770	487,021
Physical sciences	207,325	247,763	250,712	153,714	185,736	175,145	53,611	62,027	75,567
Astronomy	16,802	28,716	26,032	11,023	24,927	20,652	5,779	3,789	5,380
Chemistry	74,938	101,683	102,421	52,790	68,618	63,407	22,148	33,065	39,014
Physics	89,636	106,092	109,814	67,975	84,576	84,161	21,661	21,516	25,653
Other, n.e.c.	25,949	11,272	12,445	21,926	7,615	6,925	4,023	3,657	5,520
Environmental sciences	77,169	99,835	100,003	54,626	67,477	64,215	22,543	32,358	35,788
Atmospheric	14,501	14,699	12,542	11,320	11,700	10,056	3,181	2,999	2,486
Earth sciences	27,134	34,560	37,153	16,682	20,457	18,854	10,452	14,103	18,299
Oceanography	24,055	37,345	33,814	19,220	26,958	25,206	4,835	10,387	8,608
Other, n.e.c.	11,479	13,231	16,494	7,404	8,362	10,099	4,075	4,869	6,395
Mathematical sciences	15,152	11,720	10,047	11,374	7,576	6,846	3,778	4,144	3,201
Computer sciences	53,634	63,265	56,162	37,473	43,711	33,940	16,161	19,554	22,222
Life sciences	418,198	548,705	614,738	227,145	270,453	319,308	191,053	278,252	295,430
Agricultural sciences	53,186	72,207	76,270	19,540	23,859	21,042	33,646	48,348	55,228
Biological sciences	171,337	243,877	268,153	104,126	138,479	161,188	67,211	105,398	106,965
Medical sciences	177,879	213,912	249,164	96,273	100,368	127,734	81,606	113,544	121,430
Other, n.e.c.	15,796	18,709	21,151	7,206	7,747	9,344	8,590	10,962	11,807
Psychology	15,398	11,651	14,196	10,558	7,629	9,105	4,840	4,022	5,091
Social sciences	18,873	17,923	19,481	7,568	6,954	6,476	11,305	10,969	13,005
Economics	4,511	3,883	3,127	1,773	1,462	1,713	2,738	2,421	1,414
Political science	2,850	2,027	1,673	871	673	647	1,979	1,354	1,026
Sociology	3,678	3,405	3,325	1,947	1,473	1,545	1,731	1,932	1,780
Other, n.e.c.	7,834	8,608	11,356	2,977	3,346	2,571	4,857	5,262	8,785
Other sciences, n.e.c.	18,095	32,039	49,676	7,473	8,595	12,959	10,622	23,444	36,717

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-67. Current fund expenditures for research equipment at doctorate-granting institutions, by science and engineering field and source of funds: fiscal years 1993, 1999, and 2000

[Dollars in thousands]

Field	Total			Federal			Non-Federal		
	1993	1999	2000	1993	1999	2000	1993	1999	2000
Total	1,010,243	1,282,442	1,380,956	619,201	744,649	775,340	391,042	537,793	605,616
Engineering	213,379	278,776	298,150	126,043	163,669	166,438	87,336	115,107	131,712
Aeronautical and astronautical	13,001	21,212	19,828	10,546	14,917	12,593	2,455	6,295	7,235
Bioengineering/bio- medical	--	7,238	13,605	--	3,492	5,779	--	3,746	7,826
Chemical	21,479	27,067	25,627	10,030	13,336	13,416	11,449	13,731	12,211
Civil	17,498	23,015	27,517	7,662	11,308	9,949	9,836	11,707	17,568
Electrical	54,967	69,119	69,535	36,338	45,106	43,516	18,629	24,013	26,019
Mechanical	33,922	48,673	52,267	21,835	30,764	34,616	12,087	17,909	17,651
Metallurgical and materials	23,321	28,173	30,256	11,891	17,173	18,522	11,430	11,000	11,734
Other, n.e.c.	49,191	54,279	59,515	27,741	27,573	28,047	21,450	26,706	31,468
All sciences	796,864	1,003,666	1,082,806	493,158	580,980	608,902	303,706	422,686	473,904
Physical sciences	197,873	237,463	239,905	148,072	179,376	168,502	49,801	58,087	71,403
Astronomy	16,584	28,590	25,849	10,909	24,812	20,502	5,675	3,778	5,347
Chemistry	69,554	95,210	96,104	49,746	64,861	59,733	19,808	30,349	36,371
Physics	86,008	102,660	105,779	65,601	82,200	81,459	20,407	20,460	24,320
Other, n.e.c.	25,727	11,003	12,173	21,816	7,503	6,808	3,911	3,500	5,365
Environmental sciences	73,590	95,588	95,328	52,595	65,013	61,975	20,995	30,575	33,353
Atmospheric	14,279	14,390	12,393	11,228	11,505	10,010	3,051	2,885	2,383
Earth sciences	25,570	32,151	35,333	16,234	19,288	18,261	9,336	12,863	17,072
Oceanography	22,885	36,058	31,664	18,178	25,943	23,872	4,707	10,115	7,792
Other, n.e.c.	10,856	12,989	15,938	6,955	8,277	9,832	3,901	4,712	6,106
Mathematical sciences	13,771	11,054	9,334	10,535	7,235	6,369	3,236	3,819	2,965
Computer sciences	52,322	60,565	52,854	36,773	42,314	31,814	15,549	18,251	21,040
Life sciences	410,529	540,032	604,312	222,271	264,877	312,831	188,258	275,155	291,481
Agricultural sciences	50,802	69,881	73,681	17,580	22,074	19,424	33,222	47,807	54,257
Biological sciences	166,567	238,658	261,491	101,466	135,268	157,194	65,101	103,390	104,297
Medical sciences	177,473	213,138	248,515	96,068	99,940	127,278	81,405	113,198	121,237
Other, n.e.c.	15,687	18,355	20,625	7,157	7,595	8,935	8,530	10,760	11,690
Psychology	14,077	10,926	13,422	9,517	7,315	8,657	4,560	3,611	4,765
Social sciences	18,143	17,070	18,828	7,090	6,509	6,202	11,053	10,561	12,626
Economics	4,163	3,744	2,898	1,489	1,376	1,647	2,674	2,368	1,251
Political science	2,784	1,988	1,647	829	655	641	1,955	1,333	1,006
Sociology	3,522	3,172	3,162	1,882	1,410	1,464	1,640	1,762	1,698
Other, n.e.c.	7,674	8,166	11,121	2,890	3,068	2,450	4,784	5,098	8,671
Other sciences, n.e.c.	16,559	30,968	48,823	6,305	8,341	12,552	10,254	22,627	36,271

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-68. Current fund expenditures for research equipment at universities and colleges, by science and engineering field, source of funds, and type of control: fiscal year 2000

[Dollars in thousands]

Field	Total			Federal			Non-Federal		
	Total	Public	Private	Total	Public	Private	Total	Public	Private
Total	1,421,038	969,246	451,792	796,909	492,004	304,905	624,129	477,242	146,887
Engineering	306,023	219,095	86,928	168,915	105,517	63,398	137,108	113,578	23,530
Aeronautical and astronautical	20,171	14,827	5,344	12,909	8,988	3,921	7,262	5,839	1,423
Bioengineering/bio- medical	13,771	10,298	3,473	5,859	3,808	2,051	7,912	6,490	1,422
Chemical	25,899	18,164	7,735	13,473	8,716	4,757	12,426	9,448	2,978
Civil	28,470	25,175	3,295	10,034	8,095	1,939	18,436	17,080	1,356
Electrical	71,014	52,152	18,862	44,064	30,525	13,539	26,950	21,627	5,323
Mechanical	54,701	29,244	25,457	35,560	14,288	21,272	19,141	14,956	4,185
Metallurgical and materials	30,391	22,834	7,557	18,623	13,257	5,366	11,768	9,577	2,191
Other, n.e.c.	61,606	46,401	15,205	28,393	17,840	10,553	33,213	28,561	4,652
All sciences	1,115,015	750,151	364,864	627,994	386,487	241,507	487,021	363,664	123,357
Physical sciences	250,712	159,840	90,872	175,145	101,846	73,299	75,567	57,994	17,573
Astronomy	26,032	10,098	15,934	20,652	7,051	13,601	5,380	3,047	2,333
Chemistry	102,421	72,942	29,479	63,407	42,878	20,529	39,014	30,064	8,950
Physics	109,814	70,282	39,532	84,161	49,562	34,599	25,653	20,720	4,933
Other, n.e.c.	12,445	6,518	5,927	6,925	2,355	4,570	5,520	4,163	1,357
Environmental sciences	100,003	80,207	19,796	64,215	49,040	15,175	35,788	31,167	4,621
Atmospheric	12,542	10,150	2,392	10,056	7,769	2,287	2,486	2,381	105
Earth sciences	37,153	27,010	10,143	18,854	11,992	6,862	18,299	15,018	3,281
Oceanography	33,814	30,263	3,551	25,206	21,926	3,280	8,608	8,337	271
Other, n.e.c.	16,494	12,784	3,710	10,099	7,353	2,746	6,395	5,431	964
Mathematical sciences	10,047	5,603	4,444	6,846	3,331	3,515	3,201	2,272	929
Computer sciences	56,162	38,560	17,602	33,940	22,603	11,337	22,222	15,957	6,265
Life sciences	614,738	418,077	196,661	319,308	189,663	129,645	295,430	228,414	67,016
Agricultural sciences	76,270	72,539	3,731	21,042	19,623	1,419	55,228	52,916	2,312
Biological sciences	268,153	173,428	94,725	161,188	91,524	69,664	106,965	81,904	25,061
Medical sciences	249,164	159,610	89,554	127,734	73,771	53,963	121,430	85,839	35,591
Other, n.e.c.	21,151	12,500	8,651	9,344	4,745	4,599	11,807	7,755	4,052
Psychology	14,196	9,521	4,675	9,105	5,286	3,819	5,091	4,235	856
Social sciences	19,481	16,506	2,975	6,476	4,859	1,617	13,005	11,647	1,358
Economics	3,127	2,642	485	1,713	1,367	346	1,414	1,275	139
Political science	1,673	1,129	544	647	364	283	1,026	765	261
Sociology	3,325	2,719	606	1,545	1,211	334	1,780	1,508	272
Other, n.e.c.	11,356	10,016	1,340	2,571	1,917	654	8,785	8,099	686
Other sciences, n.e.c.	49,676	21,837	27,839	12,959	9,859	3,100	36,717	11,978	24,739

KEY: -- = not available

n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-69. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by fiscal year 2000 total current fund expenditures for research equipment: fiscal years 1997-2000

[Dollars in thousands]

Page 1 of 3

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	1,287,416	1,293,619	1,318,582	1,421,038	754,853	773,408	765,490	796,909
1 Johns Hopkins U ¹	35,197	37,117	35,278	40,204	17,502	20,195	16,231	15,391
2 MA Institute of Tech	23,978	31,276	26,250	37,195	14,693	22,214	20,601	30,256
3 U WI-Madison	31,659	23,212	23,859	33,102	15,850	12,914	12,938	18,010
4 U of Washington	26,498	22,543	36,663	28,166	21,824	14,997	22,514	22,332
5 Florida International U	7,253	7,469	2,061	27,718	4,829	4,974	1,616	1,623
6 California Inst of Tech	22,300	29,467	27,234	27,096	21,115	28,136	20,788	15,471
7 Georgia Institute of Tech	27,228	22,388	24,331	26,819	12,756	9,815	10,414	11,111
8 University of Georgia	25,744	17,187	18,292	25,887	3,724	3,132	2,442	2,982
9 U of IL Urbana-Champaign	33,828	25,576	27,524	25,609	23,205	19,518	22,903	19,129
10 Cornell University	30,323	25,050	27,301	24,166	17,529	14,371	14,554	12,589
Total, 1st 10 institutions	264,008	241,285	248,793	295,962	153,027	150,266	145,001	148,894
11 Ohio State University	11,339	15,930	16,971	21,601	3,573	3,955	4,304	4,218
12 Baylor Col of Medicine	7,186	4,465	13,248	20,939	3,612	2,442	6,780	13,657
13 Stanford University	26,143	26,271	25,401	20,775	24,120	23,290	21,920	17,220
14 Washington University	12,551	13,365	17,863	19,804	10,275	9,525	14,955	16,983
15 University of Kentucky	6,322	6,047	7,062	19,486	2,689	3,819	3,827	3,584
16 Pennsylvania State U	22,951	15,829	16,476	18,799	11,706	5,803	8,334	9,128
17 Texas A&M University	16,360	18,513	22,401	18,340	7,213	6,932	11,111	8,865
18 University of Michigan	15,264	14,354	17,565	18,247	8,161	9,767	11,511	11,498
19 University of Rochester	11,685	15,396	14,523	17,317	9,602	13,363	12,717	15,615
20 University of Minnesota	12,938	13,827	14,014	16,727	8,411	8,784	8,498	9,232
Total, 1st 20 institutions	406,747	385,282	414,317	487,997	242,389	237,946	248,958	258,894
21 University of Arizona	13,297	14,447	14,566	16,722	8,301	10,197	10,068	10,756
22 U TX at Austin	14,952	11,448	14,813	15,558	9,027	8,423	8,593	8,494
23 U CA Davis	6,237	13,778	14,571	14,346	2,995	7,338	7,471	6,123
24 U CA Los Angeles	7,702	12,731	15,013	14,335	4,983	7,114	8,174	8,417
25 Purdue University	13,767	14,171	16,527	14,239	7,650	8,321	9,789	7,406
26 U CA San Diego	10,411	13,923	15,648	13,870	5,323	8,114	7,710	8,624
27 University of New Mexico	10,747	13,019	6,475	13,869	7,724	10,548	4,292	10,617
28 Louisiana State U System	15,274	13,298	16,230	13,525	2,841	2,693	3,797	5,481
29 University of Florida	10,516	12,756	26,494	12,994	3,343	5,222	16,226	5,401
30 U CA Berkeley	8,837	8,950	9,854	12,730	5,415	5,780	6,295	7,670
Total, 1st 30 institutions	518,487	513,803	564,508	630,185	299,991	311,696	331,373	337,883
31 U of South Florida	6,649	7,226	8,201	12,333	2,701	3,682	2,285	3,566
32 U CA San Francisco	8,903	9,740	9,131	12,088	5,775	5,575	4,489	6,604
33 U of Pennsylvania	9,175	10,699	11,617	12,065	6,995	8,820	8,597	9,708
34 Harvard University	9,768	12,057	11,533	11,712	7,595	10,186	9,418	9,552
35 University of Chicago	12,832	13,037	12,704	11,695	11,078	11,015	11,628	10,344
36 Michigan State University	6,941	9,744	7,930	11,489	3,352	5,357	4,534	6,805
37 Yale University	8,716	7,817	9,774	10,655	7,379	6,941	8,610	8,577
38 Naval Postgrad School	10,418	10,418i	10,418i	10,418i	10,316	10,316i	10,316i	10,316i
39 Northwestern University	14,286	9,850	6,875	10,306	6,558	5,074	4,321	6,262
40 University of Utah	11,399	6,900	9,240	10,281	9,484	5,856	6,319	6,909
Total, 1st 40 institutions	617,574	611,291	661,931	743,227	371,224	384,518	401,890	416,526
41 University of Oklahoma	5,660	6,222	8,041	10,189	2,461	2,748	2,879	4,436
42 Columbia U in City of NY	12,575	16,866	14,172	10,060	10,259	12,618	12,463	8,549
43 University of Colorado	11,433	10,747	6,853	9,837	7,153	9,186	5,886	9,074
44 NC State University	12,950	19,152	12,802	9,834	5,837	7,089	5,247	4,519
45 Rutgers the State U NJ	8,079	9,248	9,544	9,371	3,431	3,267	3,880	4,572
46 U of Southern California	14,074	9,667	8,148	8,856	10,749	6,061	5,590	6,273
47 Indiana University	9,257	8,486	7,712	8,825	5,625	3,217	3,836	4,207
48 Carnegie Mellon U	15,641	10,241	8,215	8,748	10,643	6,926	5,892	4,485
49 University of Virginia	7,054	7,049	9,116	8,723	5,280	5,194	6,237	5,720
50 U of IL Chicago	10,027	8,334	8,421	8,482	4,749	3,750	3,096	3,770
Total, 1st 50 institutions	724,324	717,303	754,955	836,152	437,411	444,574	456,896	472,131

See explanatory information and SOURCE at end of table.

Table B-69. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by fiscal year 2000 total current fund expenditures for research equipment: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
51 Kansas State University	6,277	6,819	8,846	8,479	2,801	3,674	3,683	3,763
52 VA Polytech Inst & St U	4,596	6,724	7,609	8,429	2,046	2,688	3,218	2,208
53 U TX MD Anderson Cncr Ctr ..	2,687	1,888	5,710	8,419	746	734	622	1,718
54 SUNY at Stony Brook	5,837	7,106	5,697	8,392	2,888	4,946	3,664	3,255
55 U of Iowa	8,490	9,568	8,237	8,147	4,357	4,714	4,562	4,916
56 U of Tennessee System	8,767	7,159	9,174	8,127	3,703	3,108	3,659	3,067
57 University of Pittsburgh	5,841	4,415	5,582	8,076	4,946	3,453	4,052	6,006
58 University of Miami	8,606	8,574	8,801	8,064	7,007	6,573	6,565	5,927
59 U of Alabama Birmingham	8,988	12,156	6,934	8,017	6,871	9,581	3,603	4,779
60 U TX SW Med Ctr at Dallas	5,631	6,659	7,282	7,911	2,999	2,825	3,150	3,094
Total, 1st 60 institutions	790,044	788,371	828,827	918,213	475,775	486,870	493,674	510,864
61 U MD at College Park	17,088	13,045	12,226	7,890	7,825	9,078	8,965	5,011
62 Emory University	5,545	5,744	5,124	7,817	2,804	2,950	2,875	4,327
63 U CA Santa Barbara	4,878	5,092	6,862	7,649	3,615	4,134	5,604	5,670
64 U CA Irvine	4,011	5,716	6,643	7,487	2,442	2,900	4,051	4,702
65 Univ of Hawaii at Manoa	6,151	8,733	10,920	7,160	4,262	5,858	6,673	4,869
66 Colorado State University	7,570	8,405	7,653	7,078	5,260	4,634	4,513	4,228
67 Duke University	10,124	13,602	11,385	6,987	6,763	8,307	7,441	5,016
68 Oklahoma State University	3,925	4,718	5,894	6,884	1,782	1,316	1,475	1,388
69 University of Connecticut	5,203	6,331	5,063	6,858	1,391	1,191	1,734	2,081
70 U of New Hampshire	2,593	3,784	5,553	6,778	1,564	2,563	4,428	4,324
Total, 1st 70 institutions	857,132	863,541	906,150	990,801	513,483	529,801	541,433	552,480
71 U of South Carolina	3,135	3,659	6,404	6,749	2,068	3,045	3,845	4,837
72 New York University	3,896	6,045	5,898	6,740	3,070	4,109	3,256	3,637
73 Florida State University	10,590	7,012	7,736	6,559	6,490	5,272	5,751	4,807
74 U of Missouri Columbia	6,009	5,590	6,348	6,537	2,103	1,665	2,488	2,514
75 Texas Tech University	2,689	4,462	3,958	6,529	1,167	1,939	1,554	2,460
76 Princeton University	6,973	8,963	8,020	6,378	6,013	7,465	7,130	4,797
77 U MA Amherst	6,149	6,704	5,915	6,207	4,031	4,154	3,403	4,223
78 Arizona State University	6,137	5,791	7,025	6,176	2,192	2,893	2,990	2,092
79 Case Western Reserve U	9,793	8,625	8,524	6,074	4,335	4,325	5,381	3,382
80 Yeshiva University	5,062	4,350	7,836	5,998	3,439	3,530	2,891	2,702
Total, 1st 80 institutions	917,565	924,742	973,814	1,054,748	548,391	568,198	580,122	587,931
81 University of Kansas	4,185	5,313	5,297	5,976	1,987	2,491	2,053	3,809
82 U of Arkansas Main	3,228	4,112	3,281	5,927	1,287	1,548	1,064	2,107
83 SUNY at Albany	1,630	1,454	2,808	5,776	847	530	1,368	2,391
84 Wayne State University	5,759	5,706	6,851	5,714	1,379	1,628	1,756	1,961
85 University of Cincinnati	3,284	6,001	2,474	5,677	1,286	1,724	764	2,043
86 U Mississippi, All Camp	2,257	2,378	1,207	5,484	1,349	1,663	726	4,301
87 U of NC Chapel Hill	8,543	8,341	5,105	5,372	4,497	3,966	2,422	3,537
88 Oregon Health Sciences U	4,081 i	4,421 i	4,761 i	5,107	2,842 i	3,079 i	3,316 i	3,972
89 Clemson University	3,888	7,597	6,051	5,084	1,149	2,760	1,479	1,830
90 Vanderbilt University	3,206	5,008	7,450	5,021	2,389	3,932	6,672	3,801
Total, 1st 90 institutions	957,626	975,073	1,019,099	1,109,886	567,403	591,519	601,742	617,683

See explanatory information and SOURCE at end of table.

Table B-69. Total and federally financed current fund expenditures for research equipment at universities and colleges, ranked by fiscal year 2000 total current fund expenditures for research equipment: fiscal years 1997-2000

[Dollars in thousands]

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Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
91 U of Alaska Fairbanks	5,418 <i>i</i>	6,101 <i>i</i>	6,786	4,938	3,172 <i>i</i>	3,572 <i>i</i>	1,845	1,343
92 Iowa State University	5,434	6,201	5,414	4,763	1,912	1,977	1,566	1,401
93 University of Notre Dame	4,084	5,394	4,050	4,753	2,365	2,932	2,108	3,592
94 University of Delaware	5,370	6,529	6,330	4,624	2,814	2,346	2,798	2,414
95 Auburn University	3,569	3,349	3,062	4,334	1,460	1,419	1,382	1,388
96 U PR Mayaguez Campus	3,377	3,069	3,158	4,167	2,058	1,923	1,613	1,598
97 U TX Hlth Sci Ctr San Ant	1,919	3,002	2,901	4,098	1,085	1,860	1,236	2,238
98 Brown University	2,380	3,772	2,787	3,940	2,253	2,675	2,397	2,941
99 Mississippi State U	6,507	5,833	5,680	3,650	2,903	3,559	4,777	2,594
100 U of Maine	1,526	1,631	2,818	3,644	1,012	985	2,707	2,337
Total, 1st 100 institutions	997,210	1,019,954	1,062,085	1,152,797	588,437	614,767	624,171	639,529
Total, all other sampled institutions	290,206	273,665	256,497	268,241	166,416	158,641	141,319	157,380

¹ Johns Hopkins University includes Applied Physics Laboratory.

KEY: *i* = imputed

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-70. R&D expenditures at university-administered federally funded research and development centers, by character of work: fiscal years 1953-2000

[Dollars in millions]

Fiscal year	Total	Character of work			
		Basic research		Applied research and development	
		Amount	Percent of total	Amount	Percent of total
1953	121	33	27.3	88	72.7
1954	141	39	27.7	102	72.3
1955	180	49	27.2	131	72.8
1956	194	51	26.3	143	73.7
1957	240	65	27.1	175	72.9
1958	293	78	26.6	215	73.4
1959	338	92	27.2	246	72.8
1960	360	97	26.9	263	73.1
1961	410	115	28.0	295	72.0
1962	470	136	28.9	334	71.1
1963	530	159	30.0	371	70.0
1964	629	191	30.4	438	69.6
1965	629	208	33.1	421	66.9
1966	630	227	36.0	403	64.0
1967	673	250	37.1	423	62.9
1968	719	276	38.4	443	61.6
1969	725	275	37.9	450	62.1
1970	737	269	36.5	468	63.5
1971	716	260	36.3	456	63.7
1972	753	244	32.4	509	67.6
1973	817	296	36.2	521	63.8
1974	865	390	45.1	475	54.9
1975	987	439	44.5	548	55.5
1976	1,147	512	44.6	635	55.4
1977	1,384	600	43.4	784	56.6
1978 ¹	1,717	--	--	--	--
1979	1,935	1,022	52.8	913	47.2
1980	2,246	1,132	50.4	1,114	49.6
1981	2,486	1,270	51.1	1,216	48.9
1982	2,479	1,327	53.5	1,152	46.5
1983	2,737	1,484	54.2	1,253	45.8
1984	3,150	1,690	53.6	1,461	46.4
1985	3,523	1,765	50.1	1,758	49.9
1986	3,895	1,876	48.2	2,018	51.8
1987	4,206	2,033	48.3	2,173	51.7
1988	4,531	2,245	49.6	2,285	50.4
1989	4,730	2,352	49.7	2,377	50.3
1990	4,832	2,428	50.2	2,404	49.8
1991	5,078	2,595	51.1	2,484	48.9
1992	5,247	2,843	54.2	2,404	45.8
1993	5,295	2,938	55.5	2,357	44.5
1994	5,271	2,998	56.9	2,273	43.1
1995	5,363	2,742	51.1	2,622	48.9
1996	5,380	2,580	48.0	2,800	52.0
1997	5,440	2,683	49.3	2,757	50.7
1998	5,531	2,636	47.7	2,895	52.3
1999	5,644	2,732	48.4	2,912	51.6
2000	5,675	2,863	50.5	2,812	49.5

¹ Separate data for basic research and applied research and development were not collected for fiscal year 1978.

KEY: -- = not available

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-71. R&D expenditures at university-administered federally funded research and development centers, by science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	5,295,403	5,270,884	5,363,351	5,380,278	5,440,490	5,531,324	5,643,676	5,675,275
Engineering	1,713,257	1,786,215	1,939,425	1,869,832	2,041,582	2,196,497	2,168,580	2,169,524
Aeronautical and astronautical	158,952	223,562	339,325	332,884	370,590	386,771	400,690	353,280
Bioengineering/bio- medical	--	--	--	--	40,515	46,169	53,023	46,998
Chemical	76,470	78,613	68,742	68,650	63,124	60,804	63,364	63,963
Civil	32,575	30,703	31,354	29,427	36,073	41,129	45,527	196,827
Electrical	534,275	508,204	460,668	468,574	474,815	600,297	557,583	552,463
Mechanical	417,492	502,033	535,102	549,156	539,365	600,921	591,379	579,229
Metallurgical and materials	131,835	64,274	65,889	62,109	63,378	62,442	63,881	70,031
Other, n.e.c.	361,658	378,826	438,345	359,032	453,722	397,964	393,133	306,733
All sciences	3,582,146	3,484,669	3,423,926	3,510,446	3,398,908	3,334,827	3,475,096	3,505,751
Physical sciences	2,209,274	2,155,549	2,182,412	2,163,671	2,103,076	1,974,459	2,073,687	1,934,516
Astronomy	145,361	157,987	141,826	147,269	132,459	142,924	145,110	144,164
Chemistry	281,492	273,236	251,704	244,274	253,451	266,992	277,312	288,104
Physics	1,674,567	1,630,359	1,688,458	1,625,074	1,439,675	1,327,239	1,381,658	1,381,320
Other, n.e.c.	107,854	93,967	100,424	147,054	277,491	237,304	269,607	120,928
Environmental sciences	344,502	396,919	368,294	400,512	462,826	468,718	433,122	410,175
Atmospheric	156,327	183,995	187,953	208,820	227,590	202,661	194,671	177,450
Earth sciences	62,907	59,455	50,864	63,337	123,509	164,524	146,924	146,006
Oceanography	17,185	13,406	11,997	12,489	2,526	80	0	0
Other, n.e.c.	108,083	140,063	117,480	115,866	109,201	101,453	91,527	86,719
Mathematical sciences	119,938	113,971	83,330	98,501	29,504	29,747	46,684	191,600
Computer sciences	649,363	618,965	572,435	626,078	652,078	699,167	719,606	774,932
Life sciences	191,261	122,311	120,484	126,482	134,090	150,483	181,799	176,147
Agricultural sciences	1,077	1,216	1,067	1,286	1,320	0	0	0
Biological sciences	136,797	99,479	90,100	105,354	101,212	122,085	137,946	152,125
Medical sciences	14,897	13,059	20,875	13,663	19,448	18,832	29,557	11,348
Other, n.e.c.	38,490	8,557	8,442	6,179	12,110	9,566	14,296	12,674
Psychology	887	807	0	600	602	0	0	0
Social sciences	21,729	10,594	9,047	7,660	625	0	564	0
Economics	578	540	338	294	317	0	560	0
Political science	5,350	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0	0
Other, n.e.c.	15,801	10,054	8,709	7,366	308	0	4	0
Other sciences, n.e.c.	45,192	65,553	87,924	86,942	16,107	12,253	19,634	18,381

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-72. Federally financed R&D expenditures at university-administered federally funded research and development centers, by science and engineering field: fiscal years 1993-2000

[Dollars in thousands]

Field	1993	1994	1995	1996	1997	1998	1999	2000
Total	5,241,537	5,202,526	5,272,548	5,299,366	5,321,913	5,404,630	5,484,686	5,517,119
Engineering	1,700,839	1,769,468	1,914,876	1,849,464	2,005,888	2,156,261	2,127,385	2,132,074
Aeronautical and astronautical	158,832	222,178	338,161	331,875	369,335	385,600	399,211	352,714
Bioengineering/bio- medical	--	--	--	--	39,913	45,386	52,097	46,250
Chemical	75,541	77,714	67,841	67,713	61,745	59,482	62,079	62,909
Civil	32,050	30,275	30,960	29,067	35,511	40,425	44,736	193,814
Electrical	531,629	503,721	453,185	462,651	464,213	587,828	544,458	540,201
Mechanical	415,151	497,730	525,487	542,243	526,898	586,198	576,737	565,745
Metallurgical and materials	130,109	63,828	65,464	61,715	62,874	61,881	63,255	69,361
Other, n.e.c.	357,527	374,022	433,778	354,200	445,399	389,461	384,812	301,080
All sciences	3,540,698	3,433,058	3,357,672	3,449,902	3,316,025	3,248,369	3,357,301	3,385,045
Physical sciences	2,187,407	2,132,477	2,147,101	2,138,207	2,065,092	1,927,157	2,015,409	1,883,008
Astronomy	144,302	157,580	141,621	147,037	131,688	142,756	144,698	143,821
Chemistry	277,458	270,088	247,826	241,416	248,001	260,439	270,105	281,390
Physics	1,663,784	1,617,090	1,662,116	1,606,907	1,414,325	1,300,773	1,353,689	1,357,436
Other, n.e.c.	101,863	87,719	95,538	142,847	271,078	223,189	246,917	100,361
Environmental sciences	335,223	378,043	352,146	382,726	441,900	449,889	405,265	382,366
Atmospheric	149,637	169,125	176,071	194,896	214,027	191,968	184,636	167,969
Earth sciences	61,990	58,355	49,644	62,095	120,258	159,533	131,956	129,787
Oceanography	17,185	13,406	11,997	12,489	2,526	78	0	0
Other, n.e.c.	106,411	137,157	114,434	113,246	105,089	98,310	88,673	84,610
Mathematical sciences	118,872	112,468	81,796	96,973	28,694	28,890	45,519	187,588
Computer sciences	647,575	616,498	568,227	623,471	646,633	691,995	708,997	762,341
Life sciences	185,328	118,182	113,092	115,446	119,877	141,277	165,838	153,789
Agricultural sciences	1,077	1,216	1,067	1,286	1,320	0	0	0
Biological sciences	131,711	95,702	84,366	96,070	88,679	116,272	125,311	133,163
Medical sciences	14,619	12,784	19,277	11,960	17,881	15,561	26,414	8,152
Other, n.e.c.	37,921	8,480	8,382	6,130	11,997	9,444	14,113	12,474
Psychology	887	806	0	600	602	0	0	0
Social sciences	21,404	10,465	8,945	7,580	625	0	564	0
Economics	578	540	338	294	317	0	560	0
Political science	5,264	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0	0
Other, n.e.c.	15,562	9,925	8,607	7,286	308	0	4	0
Other sciences, n.e.c.	44,002	64,119	86,365	84,899	12,602	9,161	15,709	15,953

KEY: -- = not available
n.e.c. = not elsewhere classified

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-73. R&D expenditures at university-administered federally funded research and development centers, by science and engineering field: fiscal year 2000

[Dollars in thousands]

Institution and ranking	Total	Engi-neering	Physical sciences	Environmental sciences	Math & computer sciences	Life sciences	Psy-chology	Social sciences	Other sciences
Total, all institutions	5,675,275	2,169,524	1,934,516	410,175	966,532	176,147	0	0	18,381
1 Los Alamos National Lab	1,333,194	759,755	419,803	0	143,191	10,445	0	0	0
2 Jet Propulsion Laboratory	1,254,349e	639,597e	95,473e	70,652e	440,650e	4,559e	0e	0e	3,418e
3 Lawrence Livermore Lab	1,041,234	374,753	327,665	114,576	182,963	41,277	0	0	0
4 Argonne Natl Laboratory	461,920	179,687	150,216	84,112	17,774	30,131	0	0	0
5 Lawrence Berkeley Lab	367,113	9,335	172,674	23,425	65,272	87,506	0	0	8,901
6 MIT Lincoln Laboratory	348,339	201,026	78,620	0	60,402	2,229	0	0	6,062
7 Fermi Natl Accel Lab	297,082	0	297,082	0	0	0	0	0	0
8 Stanford Linear Accel Ctr	149,438	0	149,438	0	0	0	0	0	0
9 Natl Ctr Atmospheric Res	115,510	0	0	115,510	0	0	0	0	0
10 T J Natl Accel Facility	79,342	0	79,342	0	0	0	0	0	0
Total, 1st 10 institutions	5,447,521	2,164,153	1,770,313	408,275	910,252	176,147	0	0	18,381
11 Plasma Physics Lab	65,305	0	65,130	175	0	0	0	0	0
12 Software Engineering Inst	55,955	0	0	0	55,955	0	0	0	0
13 Natl Optical Astro Obs	36,409	0	36,409	0	0	0	0	0	0
14 AUI-Natl Radio Astr Obs	35,536	0	35,536	0	0	0	0	0	0
15 Ames Laboratory	23,281	5,371	17,585	0	325	0	0	0	0
16 Natl Astron & Ionos Ctr	11,268	0	9,543	1,725	0	0	0	0	0
Total, 1st 16 institutions	5,675,275	2,169,524	1,934,516	410,175	966,532	176,147	0	0	18,381

KEY: e = estimated

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

Table B-74. Total and federally financed R&D expenditures at university-administered federally funded research and development centers, ranked by fiscal year 2000 total R&D expenditures: fiscal years 1997-2000

[Dollars in thousands]

Institution and ranking	Total				Federally financed			
	1997	1998	1999	2000	1997	1998	1999	2000
Total, all institutions	5,440,490	5,531,324	5,643,676	5,675,275	5,321,913	5,404,630	5,484,686	5,517,119
1 Los Alamos National Lab	1,121,670	1,187,000	1,278,901	1,333,194	1,106,000	1,168,302	1,258,082	1,312,974
2 Jet Propulsion Laboratory	1,210,890	1,232,170	1,232,170e	1,254,349e	1,210,890	1,232,170	1,232,170e	1,254,349e
3 Lawrence Livermore Lab	908,700	1,076,800	1,075,536	1,041,234	870,900	1,032,192	1,028,629	993,962
4 Argonne Natl Laboratory	451,769	477,133	461,985	461,920	432,602	457,515	444,479	444,536
5 Lawrence Berkeley Lab	307,077	330,300	345,441	367,113	284,729	308,870	291,271	311,225
6 MIT Lincoln Laboratory	352,591	364,783	353,321	348,339	346,410	356,661	345,762	341,809
7 Fermi Natl Accel Lab	272,796	282,049	296,105	297,082	272,796	282,049	296,105	297,082
8 Stanford Linear Accel Ctr	122,441	131,680	144,711	149,438	122,441	131,680	144,711	149,438
9 Natl Ctr Atmospheric Res	135,980	130,865	132,587	115,510	123,663	121,121	123,327	106,819
10 T J Natl Accel Facility	79,647	75,963	74,604	79,342	75,778	74,963	73,920	78,143
Total, 1st 10 institutions	4,963,561	5,288,743	5,395,361	5,447,521	4,846,209	5,165,523	5,238,456	5,290,337
11 Plasma Physics Lab	59,146	53,005	53,693	65,305	58,692	49,699	52,027	64,738
12 Software Engineering Inst	32,229	30,113	31,821	55,955	32,229	30,113	31,821	55,955
13 Natl Optical Astro Obs	29,058	38,283	37,308	36,409	29,058	38,283	37,308	36,409
14 AUI-Natl Radio Astr Obs	33,172	34,708	37,162	35,536	32,401	34,540	36,771	35,313
15 Ames Laboratory	27,680	24,637	25,438	23,281	27,680	24,637	25,438	23,281
16 Natl Astron & Ionos Ctr	12,570	11,085	10,950	11,268	12,570	11,085	10,922	11,086
17 Brookhaven Natl Lab	239,052	--	--	--	239,052	--	--	--
18 Oak Ridge Associated Univ ..	44,022	50,750	51,943	--	44,022	50,750	51,943	--
Total, 1st 18 institutions	5,440,490	5,531,324	5,643,676	5,675,275	5,321,913	5,404,630	5,484,686	5,517,119

KEY: -- = not available
e = estimated

NOTE: Because of rounding, detail may not add to totals.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Research and Development Expenditures at Universities and Colleges, Fiscal Year 2000

SECTION C.

UNIVERSITY-ADMINISTERED FEDERALLY FUNDED

RESEARCH AND DEVELOPMENT CENTERS:

FY 2000

DEPARTMENT OF DEFENSE

Lincoln Laboratory

(Massachusetts Institute of Technology)

Software Engineering Institute

(Carnegie Mellon University)

DEPARTMENT OF ENERGY

Ames Laboratory

(Iowa State University of Science
and Technology)

Argonne National Laboratory

(University of Chicago and
Argonne Universities Association)

Continuous Electron Beam Accelerator Facility

(Southeastern Universities Research Association)

E.O. Lawrence Berkeley Laboratory

(University of California)

E.O. Lawrence Livermore Laboratory

(University of California)

Fermi National Accelerator Laboratory

(Universities Research Association)

Los Alamos National Laboratory

(University of California)

Plasma Physics Laboratory

(Princeton University)

Stanford Linear Accelerator Center

(Stanford University)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Jet Propulsion Laboratory

(California Institute of Technology)

NATIONAL SCIENCE FOUNDATION

National Astronomy and Ionosphere Center

(Cornell University)

National Center for Atmospheric Research

(University Corporation for Atmospheric Research)

National Optical Astronomy Observatory

(Association of Universities for Research in
Astronomy, Inc.)

National Radio Astronomy Observatory

(Associated Universities, Inc.)

SECTION D.
SURVEY INSTRUMENTS

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NATIONAL SCIENCE FOUNDATION
4201 WILSON BOULEVARD
ARLINGTON, VIRGINIA 22230

Dear Colleague:

The National Science Foundation (NSF) and I would like to thank you in advance for your continued participation in its annual Survey of Research and Development Expenditures at Universities and Colleges (academic R&D expenditures survey). By contributing timely and accurate information to this fiscal year (FY) 2000 survey, you can ensure that your institution is represented in data used by members of Congress, Federal and state government planners, and officials in the academic sector to assess the adequacy of the nation's research base.

Coverage for the academic R&D expenditures survey includes U.S. institutions that currently have doctoral programs in science and engineering (S&E) fields with any amount of R&D expenditures, institutions that have the status of Historically Black College or University (HBCU) with any amount of R&D expenditures, or institutions that annually perform at least \$150,000 in separately budgeted research and development S&E activities. The reliability of the data and therefore the soundness of institutional, state, and national decisions based upon them are in large measure contingent upon receipt of complete and accurate data from all surveyed institutions. **The survey questionnaire is due January 29, 2001.**

This packet contains the following items:

1. Postcard to acknowledge that you have received this package
2. FY 2000 academic R&D expenditures survey questionnaire (NSF Form 411), with instructions, NSF/NCES Crosswalk, and **Web User ID and Password**
3. FY 2000 Optional Non-S&E Item 2A survey form
4. FY 2000 Optional Item 2B survey form
5. Facsimile showing data reported for your institution on the FY 1997–99 surveys
6. Informational brochure on the new Web Data Collection System
7. Question-and-Answer booklet
8. “FYI” flyer describing the NSF academic survey system
9. “Accessing NSF Data on the Internet”
10. Envelope for returning the completed survey questionnaire

Please let us know if your package is not complete!

POSTCARD

Please take a moment to let us know you have received this package by completing and mailing the enclosed postcard, giving the name and telephone number of the person responsible for completing the survey form.

FY 1999 SURVEY

There has been a **major change** on the enclosed FY 2000 questionnaire from the survey form used for FY 1999. The FY 2000 questionnaire includes a new item. Item 1B requests current fund expenditures for separately budgeted R&D in S&E fields received as a subrecipient.

You will find an informational brochure about using the academic R&D expenditures survey Web data collection system in this packet. **Please note that your Web user ID and password are printed on the questionnaire label, which also contains your name and address.**

OPTIONAL ITEM 2A SURVEY FORM: FY 2000

To help NSF better understand how much **non-science and engineering R&D** is conducted at universities and colleges, please complete the Optional Item 2A and return it with the completed survey questionnaire. **Please note that you are encouraged to provide the Total and Total Federal non-S&E data if detailed field data are not available.** This format may become part of the survey questionnaire in FY 2001 but remains optional this year. All data reported by individual institutions on the optional item are **STRICTLY CONFIDENTIAL**. These data will not be published nor made available at the institutional level to the public.

OPTIONAL ITEM 2B SURVEY FORM: FY 2000

Please also take a moment to complete this item, which collects Federal R&D support statistics for major **individual Federal agencies**. This format may become part of the survey questionnaire in FY 2001 but remains optional this year. All data reported by individual institutions on the optional item are **STRICTLY CONFIDENTIAL**. These data will not be published nor made available at any level to the public; they will be used for internal analyses.

WORLD WIDE WEB

An academic R&D expenditures survey home page is now available through the World Wide Web on the Internet. The page contains information about the survey and provides direct access to publications and data. To reach it, direct your browser to the following URL address:
<http://www.nsf.gov/sbe/srs/rdexp/start.htm>. For more extensive S&E statistics, please try the Science Resources Studies home page: <http://www.nsf.gov/sbe/srs/stats.htm>. To submit your institution's data over the Web, the address for the Web data collection survey is <http://www.qrc.com/expweb>. **Please note that your Web user ID and password are printed on the questionnaire label, which also contains your name and address.**

FOR MORE INFORMATION

Please review the enclosed Question-and-Answer booklet, which contains useful information for completing the survey. If you have questions about the survey or would like information about our publications or data, please call Marge Machen of NSF at (703) 292-7786 or Jennifer Greer of QRC Division of Macro International Inc. at (301) 657-3077, ext. 132.

If you prefer to submit your data electronically (in a layout similar to the questionnaire), please send email to Jennifer Greer at jgreer@qrc.com.

Thank you for your efforts in providing timely and meaningful statistics to NSF.

Sincerely,



John E. Jankowski, Jr., Director
Research and Development Statistics Program
Division of Science Resources Studies

Enclosures



SURVEY OF RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES AND COLLEGES, FY 2000

Organizations are requested to complete and return this form to:

QRC Division of Macro International Inc.
7315 Wisconsin Avenue, Suite 400W
Bethesda, MD 20814-3202

If you prefer, your response to the survey may be sent by email to:

jgreer@qrc.com

This form should be returned by January 29, 2001.

REMEMBER: Now you can submit your data on the Web at <http://www.qrc.com/expweb>. For more information, please see the informational brochure on the Web collection. Please note that your Web user ID and password are printed on the adjacent label, which also contains your name and address.

Your cooperation in returning the survey questionnaire promptly is very important.

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. Your response is entirely voluntary and your failure to provide some or all of the information will in no way adversely affect your institution.

All financial data requested on this form should be reported in thousands of dollars; for example, an expenditure of \$25,342 should be rounded to the nearest thousand dollars and reported as \$25.

Where exact data are not available, estimates are acceptable. Your estimates will be better than ours.

Include data for branches and all organizational units of your institution, such as medical schools and agricultural experiment stations. Data on research centers and facilities administered by your institution should be included. In addition, include hospitals or clinics owned, operated, or controlled by universities, and integrated operationally with the clinical programs of your medical schools.

NOTE: Academic institutions should exclude data for federally funded research and development centers (FFRDCs). Data for these facilities are collected separately.

Please correct if name or address has changed

If you have any questions please contact Marge Machen of NSF at (703) 292-7786, or Jennifer Greer of QRC at (301) 657-3077, ext. 132.

Financial data are requested for your institution's 2000 fiscal year.

Please circle the month in which your institution's fiscal year begins

1	2	3	4	5	6	7	8	9	10	11	12
JAN											DEC

Do you include expenditure data for R&D performed at a hospital?

Yes No

If so, please name the hospital. _____

It is estimated that response to this survey will require 13 hours. If you wish to comment on this burden, please contact Suzanne H. Plimpton of NSF at (703) 292-7556, or email splimpto@nsf.gov.

How many person hours were required to complete this form? _____

Date submitted _____

Scope:

This survey collects data on expenditures by universities and colleges for separately budgeted research and development (R&D) in science and engineering. Definitions used are compatible with OMB Circular A-21, revised April 26, 1996. Items 1 and 2 ask for *current fund expenditures* by source of funds and by field of science and engineering. Item 3 collects data on that *portion of current fund expenditures* reported in Items 1 and 2 that went for the purchase of scientific and engineering research equipment.

Definitions:

Research and Development (R&D). R&D for purposes of this survey is the same as "organized research" as defined in Section B.1.b. of OMB Circular A-21 (revised). It includes all R&D activities of an institution that are *separately budgeted and accounted for*. R&D includes both "sponsored research" activities (sponsored by Federal and non-Federal agencies and organizations) and "university research" (separately budgeted under an internal application of institutional funds).

Research is systematic study directed toward fuller knowledge or understanding of the subject studied. Research is classified as either basic or applied, according to the objectives of the investigator.

Development is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes.

Current fund expenditures. These are expenditures of funds available for current operations. Such expenditures include all unrestricted gifts and restricted current funds to the extent that such funds were expended for current operating purposes.

PERSON WHO SUBMITTED THIS FORM (PLEASE TYPE OR PRINT)

NAME:	TELEPHONE NUMBER:
TITLE:	EMAIL:
	FAX:

PERSON WHO PREPARED THIS FORM (IF DIFFERENT FROM ABOVE)

NAME:	TELEPHONE NUMBER:
TITLE:	EMAIL:
	FAX:

Instructions for Items 1 and 2

Separately budgeted research and development (R&D) includes all funds expended for activities specifically organized to produce research outcomes and commissioned by an agency either external to the institution or separately budgeted by an organizational unit within the institution. *Include* research equipment purchased under research project awards from "current fund" accounts. Also *include* research funds for which an outside organization, educational or other, is a subrecipient. *Exclude* training grants, public service grants, demonstration projects, clinical trials, and departmental research expenditures that are not separately budgeted. Also, *exclude* any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, as well as all other non-science fields. Allocate funding to the original sources whenever possible, as specified below. If this information is unknown, report the proximate funding source.

Total

- a. **Federal Government.** Report awards for R&D (including direct and reimbursed indirect costs) by all agencies of the Federal Government.
- b. **State and local governments.** Include funds for R&D (including direct and reimbursed indirect costs) from state, county, municipal, or other local governments and their agencies. Include here state funds that support R&D at agricultural and other experiment stations.
- c. **Industry.** Include all awards for R&D (including direct and reimbursed indirect costs) from profit-making organizations, whether engaged in production, distribution, research, service, or other activities. Do not include awards from nonprofit foundations financed by industry; these should be reported under "All other sources" (line 1175).
- d. **Institution funds.** Report funds, *including* related indirect costs, that your institution spent for R&D activities from the following unrestricted sources: general-purpose state or local government appropriations; general-purpose awards from industry, foundations, or other outside sources; tuition and fees; endowment income; gifts; and other institutional funds. In addition, estimate your institution's on-campus and off-campus unreimbursed indirect costs associated with externally funded R&D projects, including mandatory and voluntary cost sharing. To estimate unreimbursed indirect costs, preferably on a project-by-project basis, use your appropriate on-campus or off-campus ***negotiated research indirect cost rate(s)*** multiplied by the corresponding base(s) minus actual indirect cost recovery.
- e. **All other sources.** Include awards for R&D (including direct and reimbursed indirect costs) from nonprofit foundations and voluntary health agencies as well as from all other sources not elsewhere classified. Funds from foundations that are affiliated with, or granted solely to your institution, should be included under line 1160, "Institution funds." Funds for R&D received from a health agency that is a unit of a state or local government should be reported under "State and local governments" (line 1125). Also include gifts from individuals that are restricted by the donor to research.

Instructions for Items 1A and 1B

For Federal awards, **subrecipient** means the entity that expends Federal awards received from a pass-through entity to carry out a Federal program, but does not include an individual that is a beneficiary of such a program. A subrecipient may also be a recipient of other Federal awards directly from a Federal awarding agency.
—OMB Circular A-133, Section .105 (revised April 22, 1996) For awards from non-Federal sources, the subrecipient definition is analogous to the Federal one.

Educational [subrecipients] refers to all academic colleges and universities and all units owned, operated, and controlled by such institutions.

**ITEM 1. CURRENT FUND EXPENDITURES FOR SEPARATELY BUDGETED
RESEARCH AND DEVELOPMENT IN THE SCIENCES AND ENGINEERING,
BY SOURCE OF FUNDS: FY 2000 (Include indirect costs)**

Source of Funds	Line No.	(1) Total (Dollars in Thousands)	(2) Percentages of Total & Federal Funds That Are Basic Research
a. Federal Government	1110	\$	%
b. State and local governments	1125		
c. Industry	1150		
d. Institution funds (sum of lines 1161 and 1162)	1160		
(1) Institutionally financed organized research	1161		
(2) Unreimbursed indirect costs and related sponsored research	1162		
e. All other sources	1175		
f. TOTAL (sum of a through e)	1100	\$	%

BASIC RESEARCH
Please provide the percentages of total and Federal expenditures that are basic research (not applied research) as defined in column (2).

CONFIDENTIALITY
Information received from individual institutions in lines 1161 and 1162, or estimates for basic research expenditures, will NOT be published or released; only aggregate totals will appear in tabulations.

**ITEM 1A. CURRENT FUND EXPENDITURES (TOTAL AND FEDERALLY FINANCED) FOR
SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT IN THE SCIENCES AND ENGINEERING
PASSED THROUGH THE INSTITUTION TO SUBRECIPIENTS**

Subrecipients	Line No.	Dollars in Thousands	
		(1) Total	(2) Federal
Educational subrecipients	1910		
Other subrecipients	1920		
Total	1900		

How much of your total R&D (line 1100) and Federal R&D (line 1110) expenditures was passed through by your institution to subrecipients?

**ITEM 1B. CURRENT FUND EXPENDITURES (TOTAL AND FEDERALLY FINANCED) FOR
SEPARATELY BUDGETED R&D IN THE SCIENCES AND ENGINEERING
RECEIVED AS A SUBRECIPIENT**

Your Institution as a Subrecipient	Line No.	Dollars in Thousands	
		(1) Total	(2) Federal
Educational expenditures	1610		
Other expenditures	1620		
Total	1600		

How much of your total R&D (line 1100) and Federal R&D (line 1110) expenditures did your institution receive as a subrecipient?

**ITEM 2. CURRENT FUND EXPENDITURES
(TOTAL AND FEDERALLY FINANCED)
FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT,
BY FIELD OF SCIENCE AND ENGINEERING: FY 2000
(Include indirect costs)**

Please note that total R&D expenditures in line 1400, column (1) should be the same as reported in Item 1, line 1100, column 1.

Federally financed R&D expenditures in line 1400, column (2) should be the same as reported in Item 1, line 1110, column 1.

Field of science & engineering	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. ENGINEERING (TOTAL)	1410	\$	\$
(1) Aeronautical & astronautical	1411		
(2) Bioengineering/biomedical engineering	1418		
(3) Chemical	1412		
(4) Civil	1413		
(5) Electrical	1414		
(6) Mechanical	1415		
(7) Metallurgical & materials	1417		
(8) Other	1416		
b. PHYSICAL SCIENCES (TOTAL)	1420		
(1) Astronomy	1421		
(2) Chemistry	1422		
(3) Physics	1423		
(4) Other	1424		
c. ENVIRONMENTAL SCIENCES (TOTAL)	1430		
(1) Atmospheric	1431		
(2) Earth sciences	1432		
(3) Oceanography	1433		
(4) Other	1434		
d. MATHEMATICAL SCIENCES (TOTAL)	1441		
e. COMPUTER SCIENCES (TOTAL)	1442		
f. LIFE SCIENCES (TOTAL)	1450		
(1) Agricultural	1451		
(2) Biological	1452		
(3) Medical	1453		
(4) Other	1454		
g. PSYCHOLOGY (TOTAL)	1460		
h. SOCIAL SCIENCES (TOTAL)	1470		
(1) Economics	1471		
(2) Political science	1472		
(3) Sociology	1473		
(4) Other	1474		
i. OTHER SCIENCES, not elsewhere classified (TOTAL)	1480		
j. TOTAL (sum of a through i)	1400	\$	\$

Please EXCLUDE from your response any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science and engineering fields.

**ITEM 3. CURRENT FUND EXPENDITURES FOR RESEARCH EQUIPMENT (TOTAL AND FEDERALLY FINANCED)
FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT,
BY FIELD OF SCIENCE AND ENGINEERING: FY 2000**

Please report that portion of current fund expenditures reported in items 1 and 2 that went for the purchase of research equipment. This includes all research equipment purchased under sponsored research project awards from current fund accounts.

For column (1), report current fund expenditures for R&D from all sources: Federal Government, state, county, municipal or other governments and their agencies (including state funds supporting R&D at agricultural experiment stations); industry; institution funds; and private foundations and voluntary health agencies, individuals, and associations.

For column (2), include funds from awards for R&D sponsored by agencies of the Federal Government.

Field of science & engineering	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. ENGINEERING (TOTAL)	1810	\$	\$
(1) Aeronautical & astronautical	1811		
(2) Bioengineering/biomedical engineering	1818		
(3) Chemical	1812		
(4) Civil	1813		
(5) Electrical	1814		
(6) Mechanical	1815		
(7) Metallurgical & materials	1817		
(8) Other	1816		
b. PHYSICAL SCIENCES (TOTAL)	1820	\$	\$
(1) Astronomy	1821		
(2) Chemistry	1822		
(3) Physics	1823		
(4) Other	1824		
c. ENVIRONMENTAL SCIENCES (TOTAL)	1830	\$	\$
(1) Atmospheric	1831		
(2) Earth sciences	1832		
(3) Oceanography	1833		
(4) Other	1834		
d. MATHEMATICAL SCIENCES (TOTAL)	1841	\$	\$
e. COMPUTER SCIENCES (TOTAL)	1842	\$	\$
f. LIFE SCIENCES (TOTAL)	1850	\$	\$
(1) Agricultural	1851		
(2) Biological	1852		
(3) Medical	1853		
(4) Other	1854		
g. PSYCHOLOGY (TOTAL)	1860	\$	\$
h. SOCIAL SCIENCES (TOTAL)	1870	\$	\$
(1) Economics	1871		
(2) Political science	1872		
(3) Sociology	1873		
(4) Other	1874		
i. OTHER SCIENCES, not elsewhere classified (TOTAL)	1880	\$	\$
j. TOTAL (sum of a through i)	1800	\$	\$

Current fund expenditures in each field for scientific research equipment is that PORTION or SUBTOTAL of the amounts reported in the corresponding cells of the "Total" and "Federal" columns in Item 2.

**CROSSWALK BETWEEN NSF FIELDS OF SCIENCE & ENGINEERING AND THE
NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS**

The left-hand column shows each of the detailed fields as displayed on the questionnaire form. The right-hand column shows the NCES fields that are included within the NSF category as well as some additional illustrative disciplines. These additional disciplines are intended to be guidelines—not sharp definitions—as to what should be reported under a particular field.

Questionnaire Field	NCES Classification and Additional Illustrative Disciplines				
a. ENGINEERING (1) Aeronautical & Astronautical	14.02 Aerospace, Aeronautical, and Astronautical Engineering (also aerodynamics, space technology)				
(2) Bioengineering/ Biomedical Engineering	14.05 Bioengineering and Biomedical Engineering				
(3) Chemical	03.0509 Wood Science (also petroleum refining process)	14.07 Chemical Engineering 14.32 Polymer/Plastics Engineering		14.25 Petroleum Engineering	
(4) Civil	04.02 Architecture 14.14 Environmental/Environmental Health Engineering (also geotechnical, hydraulic, hydrologic, sanitary and environmental, structural, transportation)	14.04 Architectural Engineering		14.08 Civil Engineering	
(5) Electrical	14.09 Computer Engineering (also power engineering)	14.10 Electrical, Electronics, and Communications Engineering			
(6) Mechanical	14.11 Engineering Mechanics	14.19 Mechanical Engineering			
(7) Metallurgical & Materials	14.06 Ceramic Sciences and Eng. 14.18 Materials Engineering 14.28 Textile Sciences and Eng. (also welding)	14.15 Geological Engineering 14.20 Metallurgical Engineering 14.31 Materials Science		14.16 Geophysical Engineering 14.21 Mining and Mineral Eng. 40.0701 Metallurgy	
(8) Other	14.01 Engineering, General 14.13 Engineering Science 14.23 Nuclear Engineering 14.27 Systems Engineering 14.99 Engineering, Other (also marine and ocean engineering systems)	14.03 Agricultural Engineering 14.17 Industrial/Manufacturing Eng. 14.24 Ocean Engineering 14.29 Engineering Design 30.06 Systems Science and Theory		14.12 Engineering Physics 14.22 Naval Architecture and Marine Engineering 14.30 Eng./Industrial Management	
b. PHYSICAL SCIENCES	40.02 Astronomy (also Gamma-ray, neutrino, optical and radio, X-ray)				
(1) Astronomy	40.03 Astrophysics				
(2) Chemistry	40.05 Chemistry (also analytical, inorganic, organic, organo-metallic, pharmaceutical, physical, polymer sciences (except biochemistry))				
(3) Physics	40.08 Physics (also acoustics, atomic/molecular, chemical, condensed matter, elementary particles, nuclear structure, optics, plasma, theoretical/mathematical)				
(4) Other	40.01 Physical Sciences, General	40.0799 Miscellaneous Physical Sciences, Other (used for multidisciplinary projects within physical sciences and for disciplines not requested separately)		40.99 Physical Sciences, Other	
c. ENVIRONMENTAL SCIENCES (Earth, Atmospheric, & Ocean)	40.04 Atmospheric Sciences and Meteorology (also aeronomy, extraterrestrial atmospheres, solar, weather modification)				
(1) Atmospheric					
(2) Earth Sciences	15.1102 Surveying 40.0703 Earth & Planetary Sciences (also engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic, isotopic, lab geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography, seismology)	40.06 Geological and Related Sciences 45.0702 Cartography			
(3) Oceanography	26.0607 Marine/Aquatic Biology	40.0702 Oceanography (also biological, chemical, geological, physical)			
(4) Other	(used for multidisciplinary projects within Earth, Atmospheric, and Ocean Sciences)				
d. MATHEMATICAL SCIENCES	27.01 Mathematics, General 27.05 Mathematical Statistics (also algebra, analysis, foundations and logic, geometry, numerical analysis, topology)	27.03 Applied Mathematics 27.99 Mathematics, Other		27.0302 Operations Research 30.08 Math./Computer Sciences	

Questionnaire Field	NCES Classification and Additional Illustrative Disciplines (cont.)			
e. COMPUTER SCIENCES	11 Computer and Information Science, General (also design, development, and application of computer capabilities to data storage and manipulation, information science)			
f. LIFE SCIENCES	01.03 Agricultural Production 02.01 Agricultural Sciences 03 Renewable Natural Resources	01.0303 Aquaculture 02.04 Plant Sciences 04.06 Landscape Architecture (also agricultural chemistry, agronomy, animal science, conservation, fish and wildlife, forestry, horticulture)	01.07 International Agriculture 02.05 Soil Science	52.1201 Management Information Systems (also design, development, and application of computer capabilities to data storage and manipulation, information science)
(1) Agricultural				
(2) Biological	19.05 Foods and Nutrition Studies 26.0203 Biophysics 26.05 Microbiology/Bacteriology 26.0609 Nutritional Sciences 26.0613 Genetics, Plant and Animal 26.0699 Misc. Bio. Specializations, Other 26.0704 Pathology, Human and Animal 26.0799 Zoology, Other 26.99 Biolog./Life Sciences, Other 51.1307 Medical Immunology 51.1313 Medical Physiology (also allergies and immunology, biogeography, biotechnology, pathology, physical anthropology, virology)	26.01 Biology, General 26.03 Botany 26.0601 Anatomy 26.0610 Parasitology 26.0614 Biometrics 26.0701 Zoology 26.0705 Pharmacology, Human and Animal 51.1301 Medical Anatomy 51.1308 Medical Microbiology 51.1314 Medical Toxicology (also allergies and immunology, biogeography, biotechnology, pathology, physical anthropology, virology)	26.0202 Biochemistry 26.04 Cell and Molecular Biology 26.0603 Ecology 26.0612 Toxicology 26.0615 Biostatistics 26.0702 Entomology 26.0706 Physiology, Human and Animal 51.1302 Medical Biochemistry 51.1312 Medical Pathology 51.2203 Epidemiology	26.0202 Biochemistry 26.04 Cell and Molecular Biology 26.0603 Ecology 26.0612 Toxicology 26.0615 Biostatistics 26.0702 Entomology 26.0706 Physiology, Human and Animal 51.1302 Medical Biochemistry 51.1312 Medical Pathology 51.2203 Epidemiology
(3) Medical	26.0608 Neurosciences 51.1201 Medicine, General 51.17 Optometry 51.20 Pharmacy 51.24 Veterinary Medicine ¹ Anesthesiology Dental/Oral Surgery Gastroenterology Hematology Neonatal-Perinatal Medicine Nuclear Medicine Oncology Otorhinolaryngology Physical and Rehabilitative Medicine Psychiatry (exclude all residency programs)	26.0611 Radiation Biology/Radiobiol. 51.1399 Med. Basic Sciences, Other 51.19 Osteopathic Medicine 51.21 Podiatry Cardiology Dermatology General Surgery Internal Medicine Neurological Surgery Nuclear Radiology Ophthalmology Pediatrics Plastic Surgery Thoracic Surgery	51.04 Dentistry 51.1610 Nursing Psychiatry/ Mental Health 51.22 Public Health	Colon and Rectal Surgery Family Medicine Geriatric Medicine Medical Programs, Other Neurology Obstetrics and Gynecology Orthopedics/Orthopedic Surgery Pharmacology Preventive Medicine Urology
(4) Other	30.11 Gerontology 51.10 Health and Medical Laboratory Technologies 51.2308 Physical Therapy (used for multidisciplinary projects within life sciences)	51.02 Communication Disorders Sciences and Services 51.16 Nursing Technologies 51.2399 Rehab./Therapeutic Services	51.07 Health and Medical Administrative Services 51.2306 Occupational Therapy 51.99 Health Professions and Related Services, Other	42.01 Psychology, General 42.02 Clinical Psychology 42.17 School Psychology
g. PSYCHOLOGY	51.2301 Art Therapy (also animal behavior, educational, experimental, human development and personality, social)			
h. SOCIAL SCIENCES	01.0103 Agricultural Economics (also applied, development, econometrics, industrial, international, labor, public finance and fiscal policy, quantitative, resource)			
(1) Economics		45.06 Economics	52.06 Business/Managerial Econ.	
(2) Political Science	44.04 Public Administration 44.99 Public Admin. and Services, Other 45.10 Political Science and Government (also comparative government, legal systems, political theory, regional studies)	44.05 Public Policy Analysis 45.09 International Relations and Affairs		
(3) Sociology	45.02 Anthropology (Social and Cultural only) (also comparative and historical, complex organizations, cultural and social structure, group interactions, social problems and welfare theory)	45.05 Demography and Population Studies	45.11 Sociology	
(4) Other	04.03 City/Urban, Community, and Regional Planning 45.01 Social Sciences, General 45.12 Urban Studies/Affairs (also history of science, socioeconomic geography)	05 Area and Ethnic Studies 43.01 Crim'l. Justice & Corrections 45.03 Archaeology 45.99 Social Sciences, Other	16.0102 Linguistics 44.02 Community Services 45.07 Geography	
I. OTHER SCIENCES, n.e.c.	(used when the multidisciplinary and interdisciplinary aspects make the classification under one primary field impossible)			

¹ Institutions with schools of veterinary medicine should distribute R&D expenditures among the appropriate disciplines (agricultural, biological, and medical) rather than only in medical sciences.



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**OPTIONAL ITEM 2A. CURRENT FUND EXPENDITURES
(TOTAL AND FEDERALLY FINANCED)
FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT
BY NON-SCIENCE AND ENGINEERING FIELD: FY 2000
(Include indirect costs)**

NOTE: For rows 2A(a) through 2A(i), report only data that have not been reported in Items 1 and 2 on this survey.
Non-S&E R&D should include any separately budgeted scholarly and creative activity, but should exclude training.

Non-science & engineering fields	Line No.	(Dollars in thousands)	
		(1) Total	(2) Federal
a. EDUCATION	1510		
b. LAW	1520		
c. HUMANITIES	1530		
d. VISUAL & PERFORMING ARTS	1540		
e. BUSINESS AND MANAGEMENT	1550		
f. COMMUNICATIONS, JOURNALISM, AND LIBRARY SCIENCE	1560		
g. SOCIAL WORK	1570		
h. OTHER NON-S&E FIELDS, please specify:	1580		
i. TOTAL, NON-S&E FIELDS	1500		
j. TOTAL, S&E (from Item 2, line j)	1400		
k. GRAND TOTAL	1600		

NOTE: If you cannot provide expenditures by non-S&E fields, please provide the Total (column 1, line 1500) and Federal Total (column 2, line 1500).

CROSSWALK BETWEEN NSF NON-SCIENCE & ENGINEERING FIELDS AND THE NATIONAL CENTER FOR EDUCATION STATISTICS (NCES) CLASSIFICATION OF INSTRUCTIONAL PROGRAMS

Questionnaire Field	CIP Code	CIP Program Category Title
Education	13.xx	Education
Law	22.xx	Law and Legal Studies
Humanities	16.xx 23.xx 24.xx 38.xx 39.xx 45.08	Foreign Languages & Literature English Language and Literature/Letters Liberal Arts & Sciences, General Studies & Humanities Philosophy and Religion Theological Studies and Religious Vocations History (except History of Science)
Visual & Performing Arts	50.xx	Visual and Performing Arts
Business and Management	52.xx 08.xx	Business Management and Administrative Services Marketing Operations/Marketing Distribution
Communications, Journalism, and Library Science	09.xx 25.xx 10.xx	Communications Library Science Communications Technologies
Social Work	44.07	Social Work
Other Non-S&E Fields	31.xx 29.xx	Parks, Recreation, Leisure and Fitness Studies Military Technologies

OPTIONAL ITEM 2B
CURRENT FUND EXPENDITURES (TOTAL AND FEDERALLY FINANCED) FOR SEPARATELY BUDGETED RESEARCH AND DEVELOPMENT, BY FIELD OF SCIENCE & ENGINEERING: FY 2000 (Include indirect costs)

Please note that total R&D expenditures in line 1400, column (1) should be the same as reported in Item 1, line 1100, column 1. Federally financed R&D expenditures in line 1400, column (2) should be the same as reported in Item 1, line 1110, column 1.

Allocate funding to the original sources whenever possible. If that information is unknown, report the proximate funding source.

KEY: USDA, Department of Agriculture; DoD, Department of Defense; DOE, Department of Energy; HHS, Department of Health and Human Services; NASA, National Aeronautics and Space Administration; NSF, National Science Foundation. "Other" Federal sources include all other Federal agencies.

Field of science and engineering	Line No.	(Dollars in thousands)								
		TOTAL ALL	TOTAL FEDERAL	USDA	DoD	DOE	HHS*	NASA	NSF	Other
a. Engineering (Total)	1410									
(1) Aeronautical & astronautical	1411									
(2) Bioengineering/biomedical engineering	1418									
(3) Chemical	1412									
(4) Civil	1413									
(5) Electrical	1414									
(6) Mechanical	1415									
(7) Metallurgical & materials	1417									
(8) Other	1416									
b. Physical Sciences (Total)	1420									
(1) Astronomy	1421									
(2) Chemistry	1422									
(3) Physics	1423									
(4) Other	1424									
c. Environmental Sciences (Total)	1430									
(1) Atmospheric	1431									
(2) Earth sciences	1432									
(3) Oceanography	1433									
(4) Other	1434									
d. Mathematical Sciences (Total)	1441									
e. Computer Sciences (Total)	1442									
f. Life Sciences (Total)	1450									
(1) Agricultural	1451									
(2) Biological	1452									
(3) Medical	1453									
(4) Other	1454									
g. Psychology (Total)	1460									
h. Social Sciences (Total)	1470									
(1) Economics	1471									
(2) Political science	1472									
(3) Sociology	1473									
(4) Other	1474									
i. Other Sciences (Total)	1480									
j. Total (sum of a through i)	1400									

Please EXCLUDE from your response any R&D expenditures in the fields of education, law, humanities, music, the arts, physical education, library science, and all other non-science and engineering fields. * Includes NIH.

When complete, please submit via the Web at www.qrc.com/expweb
or mail to:

**Jennifer Greer
QRC Division of Macro International Inc.
7315 Wisconsin Ave., Suite 400W
Bethesda, MD 20814-3202**

BASIC RESEARCH

How should basic research be calculated?

The percentage of basic research should be defined at the individual grant level by each principal researcher. Where this is not possible, grants should be reviewed by each department head or other relevant research coordinator.

Here is another method used by one institution to estimate the amounts of basic and applied research: All federally funded grants and R&D funded from other universities, foundations, and nonprofit organizations are considered to be basic research. R&D funds received through Federal cooperative agreements and Federal contracts, all state-funded R&D (except that from the state's Advanced Research Program), and R&D funds received from private for-profit institutions are considered to be applied research.

DATA USES AND AVAILABILITY

How are these data typically used?

Congress and Federal and state government planners use the data for science policy analysis, national and international studies, legislative hearing reports, budget formulation sessions, and other measurements of the adequacy of the nation's research base. Academic institutions use the information for policy analysis, publicity, and other purposes. Industrial firms often request data to prepare for on-campus recruiting. The data often appear in higher education studies and publications.

How are the data made available?

NSF's annual *Academic Research and Development Expenditures Survey* compiles detailed data in a comprehensive document, available on request. Institutional profiles show trend data for responses at the institutional level from all academic S&E surveys.

Survey data are now available through the World Wide Web on the Internet. To obtain the most recent survey publications and data tables, data files, institutional profiles, and access to WebCASPAR, the Web-based Computer-Aided Science Policy Analysis and Research database system, direct your browser to <http://www.nsf.gov/sbe/srs/stats.htm>.

*For more information, contact Marge Machen at
(703) 292-7786 (email: mmachen@nsf.gov).*

Questions and Answers

This booklet answers common questions about the academic R&D expenditures survey.

FIELD OF SCIENCE CLASSIFICATIONS

How should I assign field classifications for research and development (R&D) performed in interdisciplinary centers?

Interdisciplinary research should be categorized by individual research project according to the nature of the research performed. When individual projects encompass multiple fields of science and engineering (S&E), prorate expenditures to report the proportions of each discipline involved. Do not lump funds together into "other" field categories unless the type of research is actually defined as "other." NSF recommends crediting such research to the appropriate S&E discipline when the project first begins.

How should I allocate research dollars spent for computing or supercomputing services?

Report research dollars spent for computer usage to the individual fields of science and engineering for which the R&D is performed. Do not report these funds in computer science, unless computer science research was performed.

What fields should be excluded?

Exclude fields that are considered to be non-science—education, law, humanities, business, music, the arts, library science, and physical education. Note that you would report separately budgeted R&D for the philosophy of science (a science category), but not philosophy (one of the humanities). The NSF/NCES Crosswalk included with the questionnaire lists all S&E fields.

SOURCES OF FUNDING

COLLABORATIVE RESEARCH ARRANGEMENTS

Should faculty practice plan income be included in the survey?

Expenditures for faculty practice plans are not considered research and should not be included. If income from such plans is used to fund other research and the funds are separately budgeted, then the expenditures should be included in institutional funds.

How much of our administrative costs can be reported in the survey?

Administrative salaries and other administrative costs, particularly at your organized research units, can be reported only if funded through projects specifically restricted and budgeted for research. General administrative costs should not be reported.

How should I report institutional funds?

All research dollars reported for your institution should be funds that are separately budgeted and restricted for research, such as sponsored research accounts or general accounts that are specifically budgeted for research. Do not include funds not specifically budgeted for research.

If your institution does not track underrecovery of indirect costs, use the underrecovery formula included in the questionnaire instructions. Do not forget to include and distribute unreimbursed indirect costs by detailed field in survey Item 2.

Be sure to report all indirect costs related to your institutional funds.

Can I report donated research equipment in the survey?

Since donated research equipment is not typically captured in university accounting systems, the value of donated research equipment should not be reported.

Should I report expenditures received through collaborative research ventures with other institutions?

Report only what your institution actually expends and accounts for when participating in joint research ventures.

How do I distinguish between being a subrecipient of pass-through funds and being a subcontractor of R&D services?

A subrecipient is an entity that receives Federal financial assistance from the state or any other entity to administer a program (OMB Circular A-110). The subrecipient actually administers or controls the program, as opposed to the subcontractor who contracts for a specific service on a per-unit basis. A key factor in determining if a subrecipient arrangement exists is determining if the entity assumes the responsibility to administer the program. Subrecipients tend to be the co-authors of publications, writers of technical reports discussing findings, inventors, etc. Unlike a subrecipient relationship, a subcontract is a procurement of goods and/or services. Payments to subcontractors are expenditures for services, not expenditures for research, and are different from pass-through funds to subrecipients.

ORGANIZATIONAL UNITS

Which organizational units should I include in the survey?

Include research conducted through units that are considered part of your institution's organizational structure. For example, report expenditures from branch campuses, medical schools, agricultural stations, research centers and institutes, and any other units whose expenditures are separately budgeted **and are accounted for by your institution's financial system**. Exclude R&D expenditures performed by federally funded research and development centers (FFRDCs), nonprofit institutions, and private laboratories. Do not report salaries of faculty doing research at outside institutions unless your institution accounts for the funding of that research.

Academic R&D Expenditures

Security: Your data are password-protected to ensure confidentiality.

- Data reporting is easier—enter your data directly onto your computer screen.
- Help and instructions are readily available to you on each Web survey page.
- Data errors are reported to you instantly.

Everything's done on your computer screen. Totals are computed for you. Flags indicate when your survey is ready to submit to NSF.

How It Works

On your computer, open your Web browser (such as Netscape Navigator or Microsoft Internet Explorer) and visit <http://www.qrc.com/expweb>

Log in by entering the Institution ID and password you received from NSF. (If you forget them, email us at expweb@qrc.com).

Then you can . . .

- update your contact information and
- enter survey data.

You Can Also

- print the finished survey on paper for your records
- work offline using spreadsheets and data files
- get personalized help on your computer screen

For Further Information

If you have any questions about this Web survey, please contact

Jennifer Greer or

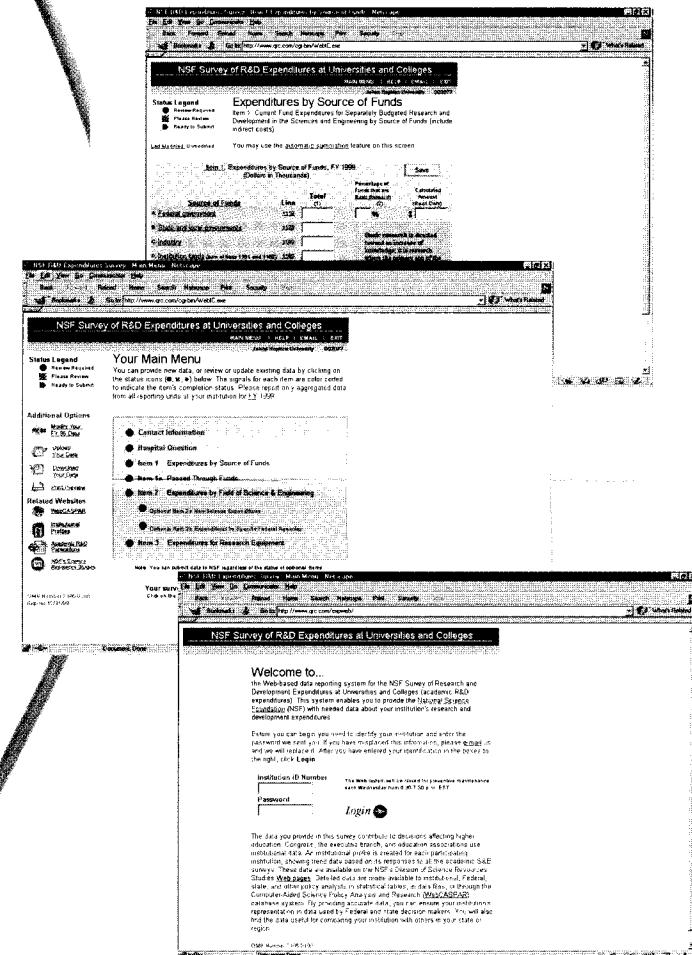
Sujata Gamage
by telephone at

(301) 657-3070 or by

email at expweb@qrc.com.

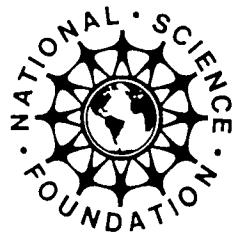
For any other survey data

questions, please contact Marge Machen of NSF at (703) 292-7786 or by email at mmachen@nsf.gov.



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- You can review and revise your data at any time.
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